INTERSTATE CERTIFICATION
OF INDUSTRIAL ARTS TEACHERS
FOR SECONDARY SCHOOLS

by

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INTERSTATE CERTIFICATION
of
INDUSTRIAL ARTS TEACHERS
for
SECONDARY SCHOOLS

CHAPTER I

INTRODUCTION

This investigation was prompted by contact with problems arising from a complication of factors. Economic complexities have resulted in an increased migration of teachers from state to state and in turn there has come a need for a broader and a more uniform preparation.

Many teachers are prepared for certification only in the states where their training has been secured. In many instances they cannot be certificated in other states without additional preparation.

While previous studies of industrial arts teacher certification have shown an appalling amount of variance and incongruity existing among the state regulations, this present investigation has taken into account the matter of teacher preparation and shows clearly just how much teacher migration is possible under present conditions.

The subject of teacher certification is not new. Neither is it old, nor will it become old - old, in a sense that it will cease to be a topic worthy of further investigation, study and consequent evolution.

Progress has been made and will continue to be made in raising educational standards in the United States. This progress has been
and will be influenced to a considerable extent by legislation governing administrative practice. The standard of qualifications demanded of teachers has been steadily upgraded through laws and regulations set up by states granting certificates to teach.

Development has come slowly and has followed no particular scheme or pattern of organization. Each state seems to have had its own ideas and system of certificating its teachers.

Today public attention is being drawn sharply to many matters of social significance. Happenings of the past few years, or months for that matter, point plainly to even a greater crystallization of the factors satisfying public needs. Today public attention is being focused on public school teachers and the teaching profession more than ever before.

The recent economic crisis has resulted in a close scrutiny of many phases of personal and public welfare. Value received for money expended, particularly public money, is generally being more closely examined. Many questions are being raised regarding the relative value of certain procedures and in many instances these questions are not being adequately answered. In fact, there is evidence of evasion in meeting certain issues.

Our public school system is in the lime-light for a full quota of interrogation and it appears quite evident there should come more growth and a further extension of sympathetic and professional attitude on the part of teachers. There should come reform and progress in the professional preparation of teachers.
How is this to be accomplished? Not through lip service, but rather through constructive action and participation by those directly concerned. The writer has reasons to believe that the findings of this study will have considerable practical application. There is need for unification and this work should tend to promote a professional program which eventually might lead to a higher degree of standardization for the preparation of teachers in general, and of industrial arts teachers in particular.

PURPOSES OF INVESTIGATION: - The primary purpose of this investigation is to determine the extent of interstate secondary certification opportunities available to the graduates of industrial arts teacher-education programs of the standard institutions of higher education providing work in that field. The study is based upon certification requirements reported by the several states and upon published institutional curricular requirements.

The secondary purpose is that of making observations of the curricula of the teacher-education institutions, with a view to drawing attention to the need for unification and a measure of standardization.

The auxiliary purposes are:

1. To indicate the existing variation and lack of uniformity between the several states.
2. To compare state laws and regulations approved by certificating agencies for the teaching of industrial arts in the United States, insofar
as these affect interstate certification.

3 To indicate some trends in industrial arts teacher education curricula.

4 To indicate need for further study of certification and curricular requirements.

HISTORICAL SYNOPSIS:- A concise historical sketch of the development of state certification is set forth in the United States Bureau of Education Bulletin, number 22 (1921). It points out that, while teacher certification has for a number of years been generally considered a state responsibility, it was originally conceded to be a local matter. In brief the development has followed about this course:

Beginning with local district or township inspectors or examiners, the power of certification passed into the hands of county superintendents. Then, as state departments of education were definitely established and took on importance and prestige, more and more educational authority was granted them.

Higher efficiency and more uniform requirements were secured under this plan, by including among the statutory duties of state departments that of granting certificates of state-wide validity as well as by influencing or controlling the entire procedure of certification. Through the years there has been a continuous and quite definite cand-

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1 Cook, Katharine M. State Laws and Regulations Governing Teachers' Certificates, United States Bureau of Education Bulletin No. 22, 1921
tralization of authority of certification in state educational organizations.

Scholarship requirements have been upgraded. From the first indefinite requirements, the states have passed to a stage where the requirements are quite specific. Since the establishment of the first normal school in 1839, professional preparation has increasingly become the practice. Certificates are given to graduates of professional schools without further examination. In the State of Pennsylvania, for example, certificates were granted by normal school officials to graduates before the State Board or the State Superintendent was vested with such prerogative. By 1873 the discussion of such a certificate, thought of as a professional license, had become quite general, and a number of states recognized the demand in their certification laws or practice. In 1897 twenty-eight states recognized graduation from normal schools or universities as evidence of qualifications for certification. By 1921 all states but one issued one or more certificates on the basis of professional training, and at the present time all states follow the practice.

While the foregoing applies to certification in a broad sense it may be assumed that all certification, including that for the so-called "special" subjects, is an outgrowth of previous efforts and has come along about the same road.

There appears to have been little if any recognition given to the "special subject" teacher prior to 1910, when some of the states added special requirements for teachers of these subjects. Industrial arts
was not recognized as such among the group at that time. The work did not come into prominence among the "special" group in education until later. Apparently little thought was given to this particular part of public education, because comparatively few schools throughout the entire country were offering any phase of industrial arts work as we understand it today. Some effort had been made to train teachers for this type of work, but the demand was so small that they often entered some other branch of teaching. The few industrial arts or "manual training" teachers required in the days before 1910 were recruited largely from the various trades, principally carpentry and cabinet making. The principal requirement for teaching industrial arts during earlier days was trade knowledge, and often this was overlooked or ignored. For the most part, this condition was local and very little if any effort was made by any state to set up requirements for these teachers.

The transition period from 1910 to 1920 marked a rather rapid change from "manual training" and its emphasis upon skill, to "manual arts", and a greater emphasis upon the aesthetic side of the program. Skill was still a large factor in the objectives, but art came to the fore.

The still broader objectives of present day "industrial arts" -- consumer education, industrial information and appreciation, a degree of skill consistent with avocational or "handiman" applications, developmental values for general education -- all developed gradually over the period from 1915 to the present, each intensified in turn by
the passage of the Smith-Hughes Act, which relieved industrial arts of the "trade" objectives, and by the development of the guidance and the junior high school movements.

During the past ten years many new demands have been made upon industrial arts teachers. These demands have developed primarily from the endeavors of school administrators to meet two major situations. One of these was the changed philosophy of education. The other was that of economic expediency.

Industrial arts was recognized as an excellent means of teaching certain subjects in a concrete rather than an abstract manner, thereby conforming with the changed philosophy and making a considerable contribution toward meeting the objectives of general education. However, many administrators found it increasingly difficult to adjust school programs to current economic circumstances unless the teaching of industrial arts could be combined with the teaching of other subjects. To meet the demands growing out of the broader objectives of industrial arts to accommodate the need for a combination of subject-matter, the industrial arts teacher needed preparation in the technique of teaching, a mastery of subject-matter beyond his own field of specialization, and an understanding of the objectives of general education. Skill and trade knowledge alone would no longer suffice. In short he must be professionally prepared.

In a measure these demands have been faced squarely and substantially satisfied. Industrial arts teachers, properly trained, have rendered satisfactory service in all types of professional positions.
The professional development of industrial arts teachers has been accomplished largely through the programs offered by teacher education institutions, and by a desire on the part of the teachers training in such schools to render a really professional service to the youth of today, through a curricular program suited to the needs of a scientific and an industrial era.

SCOPE OF INVESTIGATION: In this study there is presented information concerning the requirements and regulations which govern the issuance of certificates to industrial arts teachers for standard four-year secondary schools, insofar as these are regulated by state legislation or state administrative departments.

It has not been within the scope of this work to venture to determine the degree of enforcement or adherence to state laws and regulations. Neither has it been possible to take into consideration certificates issued by city boards or city superintendents. The requirements in each instance have come directly from state superintendents of public instruction or other state officials of equivalent capacity.

The curricula studied have been those of schools reported by state departments as meeting the requirements for the certification of industrial arts teachers in standard four-year secondary schools. In any case where the state department reported no school, one was selected for that state upon the basis of the strongest curricular requirements and subject-matter offerings as shown by the college catalogues.

Material is presented for each of the forty-eight states. The
District of Columbia is not included in this study. The territories of Alaska and Hawaii and the possessions Guam, Virgin Islands, American Samoa, and Canal Zone have been incorporated in the appendix.

**TERMINOLOGY:** The terms used are for the most part those given in the state regulations, received from state officials.

Licenses, diplomas, permits, and certificates are used in different states. In this study, when general reference is made, all these are usually referred to as certificates.

To avoid duplication, the following requirements have been assumed as having general adoption:

1. Every teacher must be of good moral character.
2. Experience, when stated, is assumed to be successful experience.
3. The effects of alcohol and narcotics are included in courses of physiology and hygiene.
4. A standard college is one maintaining a four-year course leading to the bachelor's degree and requiring completion of four years of secondary preparation for entrance.
5. Approved schools are those meeting the requirements of state departments or state boards.

**METHODS OF PROCEDURE:** The steps followed in making this investigation were established at the outset and with the exception of a
few minor changes were consistently adhered to throughout.

First, a schedule or directory of all state school superinten-
dents or other state officials of equivalent capacity was prepared. This was taken from the Educational Directory, Bulletin 1938-No. 1, United States Department of the Interior, Office of Education.

A letter was prepared and dispatched to each state official for the purpose of securing the following information:

The certification requirements for teaching industrial arts in public secondary schools

The names of institutions in the state offering teacher education to meet these requirements

This letter was reproduced by the multigraph process and a fac-
simile will be found in appendix "B", page 283.

The replies (letters or bulletins) were properly filed as they were received. A list of the letters and bulletins received will be found in the bibliography, pages 284 - 285.

State certification specifications for industrial arts teachers were set up for each state and formed a part of the working papers.

Catalogues of the reported or selected schools for each state were next consulted to determine the nature and scope of the industrial arts curricula and the subjects offered. Schedules of these curricula were set up and likewise became a part of the working papers.

Check sheets were then prepared on columnar paper. The state cer-
tification requirements were listed along the left-hand margin of the sheets and the names of the states across the top.

Checking terms were next decided upon and set up. These were
twelve in number. Each was given a number. Details of the checking terms will be found on pages 47 - 48.

The process of checking each state against the other was the next in order. As this went forward it proved to be a great time consumer. There were over 25,000 items checked in the process. A table giving the specification details will be found on pages 35 - 36. "Findings" sheets were kept on each state, and the status of each state in terms of the requirements and curricula of all the other states was noted as the checking progressed. These findings form a principal part of this investigation. Pertinent facts were noted as the work went forward and some of these facts have been used in this work; others may be used in future studies.

POSSIBLE USES OF THE INVESTIGATION:— Each state should be able to determine whether or not its program of industrial arts teacher education is adequate from an out-of-state viewpoint.

The study may serve as a guide for prospective teachers and those already in the field, in the selection of an institution for industrial arts teacher education.

The findings could be a far-reaching factor in publicity, the ability of a school to train for and place graduates in other states. For example, graduates might be certificated in forty or thirty or twenty or ten and so on of the forty-eight states in the Union.

An enlarged placement field could result from ability to prepare teachers for other states.
A larger placement field might serve as a means of developing prestige on a national scale.

Institutions might gain in prestige because of: adequate preparation offered, excellent faculty, large student body, desirability of graduates.

Adequacy of training will attract high quality of students.

A larger student body should mean more funds with which to secure the services, and hold in service, prominent and well qualified faculty members.

Findings could act as a measuring stick for institutions desiring to build up their industrial arts teacher-education departments.

The findings should assist in bringing about a better understanding of the problems of other states and other institutions.
CHAPTER II

REVIEW OF LITERATURE

One of the first steps toward the consummation of this investigation was to determine what had already been written and then to examine as much of the material as was available or could be secured.

Comparatively little material was found having direct or indirect association with the problem at hand. Some of the material has been reviewed quite extensively for the sole convenience of the reader. This has seemed to be the only practical way to give a background of previous studies, particularly since those studies are principally in the form of unpublished theses.

Anderson\(^1\) stated that the total number of industrial arts teachers in the United States is estimated at approximately twenty thousand, but that no recent study concerning the certification requirements of these teachers was available. He sets forth four purposes of his study:

1 To ascertain present practices and methods in the certification of teachers of industrial arts
2 To tabulate the requirements made by the various states
3 To point out the range of variation in requirements for certification in the various states
4 To draw conclusions concerning the certification of industrial arts teachers

\(^1\) Anderson, Carl L. Certification of Industrial Arts Teachers, Ohio State University, Columbus, Ohio. M. A. 1932.
The survey technique was employed to gather information concerning certification requirements and regulations from state school superintendents. Only certificates entitling the holder to teach industrial arts were considered and further limitation was imposed by the fact that only certificates issued by state departments of education were studied. The requirements for certificates issued by colleges, normal schools, universities, cities, or counties were not studied.

In this study, Anderson defined industrial arts as one of the practical arts, including all the non-vocational subjects taught in an industrial laboratory or shop. He tabulated the requirements under eight headings which are listed as follows:

1. Name of certificate
2. Means of securing
3. Professional preparation
4. Technical preparation
5. Duration or term
6. Range or scope
7. Bases for renewal
8. General requirements

The professional and technical preparation is stated in terms of semester hours.

Chapter two reviews previous literature, reports it relatively undeveloped, shows laws and regulations constantly changing, and states that certain previous studies were of little value at present. Reviewing a study by Katherine M. Cook, "State Laws and Regulations Governing Teachers' Certification", Department of Interior, Bureau of Education, Bulletin No. 19, (1927), Anderson pointed to the fact that in 1926 "forty-five states issued 'specials' for music, physical edu-
cation, manual training, and home economics."

One article reported by Anderson as of particular value to his study was one by Adolph Shane entitled "Educational Requirements of Industrial Arts Teachers." In this was presented a few results secured from a study of the general and specific educational requirements of manual and industrial arts teachers. At the time of the study, 1929, thirteen states required four years of college work, four states required three years, twenty states required two years, and eight states required one year or less or had no specific requirements.

Information was received from all the states except South Carolina. The data from Mississippi, Arkansas, and New Hampshire was not comparable to that received from other states. The material outlining their requirements was indefinite and the data was not considered in his study. Maine at the time was revising requirements, but such data as was forwarded was incorporated. Anderson makes special mention of the fact that his schedule of tables is correct as of April 15, 1932.

Chapter four has for its purpose an examination of the state tables and an analysis of the data contained therein. Under the heading "Names of Certificate" he found no less than one hundred seventeen different kinds. Georgia alone issued twelve different certificates for teaching industrial arts. It is stated that the data derived through the study furnished no good evidence of the need for so many different kinds of certificates, as in Georgia, to teach the same subject; nor why certificates issued on the same basis should not have a
uniform terminology among all states.

The bases varied greatly among states and within single states. In New York, five different bases were reported upon which a certificate might be granted. Within another state the bases ranged from college graduation plus a year of graduate work, to high school graduation plus five years of approved trade experience and the completion of twenty-four units of prescribed work. In five states examination was still (1932) a possible basis. No evidence was discovered indicating any reason for such a wide range. Professional preparation ranged from twenty-four semester hours to "no specific requirement."

The amount of technical preparation ranged from fifty-five or sixty hours to "no specific requirement." Anderson assumed that, other things being equal, states requiring technical preparation are better able to certificate teachers of that subject than states having no requirement for the work. Certification was found to be valid for terms which varied widely. Some states grant life certificates immediately upon graduation from college. In other states ten years had been set up as a valid period, with renewal privilege of another ten years. In some cases the lower grades of certificates were valid for one year, non-renewable, but convertible upon meeting further requirements. Michigan and Oregon were among the states issuing "blanket" certificates. Wide variation was found as a basis for renewal of certificates. In several states renewal could be secured without any further requirement. The common requirement for renewal was found to be that of completion of a certain amount of successful teaching, fur-
ther preparation, or other evidence of professional growth. A lack of
uniformity was found in the general requirements as well. The minimum
age varied from seventeen to twenty-three. Good moral character ap-
peared as a general requirement, but no indication was found concern-
ing the meaning. Five states demanded knowledge of the Constitution of
the United States. Three states had reciprocal arrangements. In some
others certificates were issued to out-of-state applicants upon the
evaluation of the credits presented.

In his summary and conclusions Anderson set forth the following
points:

**SUMMARY**

1 Variability rather than uniformity exists

2 One hundred seventeen kinds of certificates
   found

3 Bases range from college graduation plus one
   year of graduate work, to eighth grade education
   plus certain trade experience

4 Professional preparation ranged from twenty-four
   semester hours to no specific requirement

5 Technical preparation ranged from sixty hours to
   no specific requirement

6 Some states issued blanket certificates

7 Life of certificates ranged from one year to
   life

8 Scope of certificates ranged from any grade or
   any subject to a limited industrial arts subject

9 Renewals are from no further requirement to suc-
10 Little evidence of reciprocity

CONCLUSIONS

1 No valid reason for so wide a variation

2 Federal regulation setting up certain minimum essentials has established a precedent in one area (Smith-Hughes)

3 Cites State of Louisiana as having a system of certification which might well be duplicated by other states

4 Raises the question as to what extent the rules and regulations of various states are being enforced and what "loop-holes" or opportunities are open for evasion

5 Teachers in small high schools may have to teach several subjects and may require a different preparation

6 Recommends further study to determine additional factors pertinent to the raising of certification standards

Thirteen southern states: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia were studied by Arant. Three other states, California, New Jersey, and Nevada, were set up as standards. On the average, the southern states do not have as high requirements for the certification of industrial arts teachers as the

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three states set up as standards.

A study of what teacher-education institutions offer to the students preparing to be industrial arts teachers, together with suggestions as to what should go into the makeup of these offerings was made by Ashley³. It was found that programs of teacher education in the field of industrial arts differed greatly in various colleges over the country and that these differences were noticeable in every factor making up the programs. Some of the factors in which colleges vary were: entrance requirements, physical setting, number of minors required, academic requirements, age levels for various courses, number of instructors and their preparation, institutional policies, and other auxiliary factors. Implications are given for an improved program. For the first semester or year an orientation course, such as general shop, in which a number of areas are found, is suggested.

Among other things Ashley believes that, during the sophomore, junior, and senior years, additional specialization in these areas should be given. He states that there will need to be a minimum of eighty quarter hours in technical and professional courses for those who plan to teach in a general shop. A minimum of five general professional courses including education and psychology was thought to be adequate. It is clearly pointed out that if the suggestions for teacher education are carried out there will need to be considerable revision in many curricula. Attention will need to be given to such phases as lab-

oratory planning, equipping, housing, and the securing of sufficient and qualified faculty.

Bollinger\textsuperscript{4} made a comprehensive study of certification laws and regulations, with a classification of current certificates and requirements in the various states, leading to a consideration of coordinated plans for the certification of teachers.

Bulletin No. 19 (1927), United States Bureau of Education\textsuperscript{5} deals with the legal provisions governing certification. It sets forth under uniform headings the most important facts relating to teachers' certificates in all the states; presents summary tables of selected items; points out certain comparisons and tendencies noticeable to 1927.

Dougherty\textsuperscript{6}'s thesis is a comparative compilation of the certification requirements for industrial arts teachers in the United States, covering forty-six of the forty-eight states. For purposes of comparison two years were taken into consideration -- 1912 and 1932 -- making a spread of twenty years.

For convenience of mechanical arrangement the country was divided into eight geographical regions. The states comprising each region were written up collectively and handled as a chapter in the study.

\textsuperscript{4} Bollinger, Roy A. Trends in State Requirements for the Certification of Teachers, Supervisors, and Administrators, University of Southern California, Los Angeles. M. A. 1930.

\textsuperscript{5} Cook, Katherine M. State Laws and Regulations Governing Teachers' Certificates, United States Bureau of Education Bulletin No. 19, 1927.

\textsuperscript{6} Dougherty, Vivian Channing State Certification Requirements for Industrial Arts Teachers of The United States, Indiana University. M. S. 1933.
Chapter one is devoted to introductory material. Other chapters discussed certification problems in the several regions, as follows:

### New England States
- Connecticut
- New Hampshire
- Maine
- Rhode Island
- Massachusetts
- Vermont

### Middle Atlantic States
- Delaware
- Pennsylvania
- Maryland
- Virginia
- New Jersey
- West Virginia
- New York

### Central States - Eastern Section
- Illinois
- Michigan
- Indiana
- Kentucky
- Ohio
- Wisconsin

### Central States - Western Section
- Iowa
- Nebraska
- Kansas
- North Dakota
- Minnesota
- South Dakota
- Missouri

### Southern States - Eastern Section
- Alabama
- North Carolina
- Florida
- South Carolina
- Georgia
- Tennessee
- Mississippi

### Southern States - Western Section
- Arkansas
- Oklahoma
- Louisiana
- Texas

### Northwestern States
- Idaho
- Washington
- Montana
- Wyoming
- Oregon
Source material was secured through correspondence with state superintendents of public instruction or other state officials. In all cases the states were treated individually and the minimum requirements established and given.

The one outstanding finding of the study, according to the author, was the lack of uniformity between the states on any one single item. Each state had set up requirements to suit its own convenience. In 1912 the agricultural South and the mining, grazing, and agricultural sections of the West were the most backward in the matter of certification requirements for industrial arts teachers. Dougherty found that in that same year only two southern states had any type of system for the certification of industrial arts teachers. The West at the time was very irregular. Almost half of the states in the country had no requirements.

**Certification Requirements For 1912 and 1932**

<table>
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<th>Type of Requirement</th>
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Certification Requirements For 1912 and 1932 (Cont'd)

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By 1932 the number of states having no requirements had decreased from eighteen, in 1912, to two. The South as a whole was found to average as high as any other section of the country. The Mississippi Valley and Middle Atlantic States embraced the section having the highest requirements. In 1932 the West was still very irregular, Washington being the exception by having more demands in the way of certification requirements than any other state in the Union. In the twenty years, 1912 to 1932, Washington advanced from a position of no requirements to that of requiring four and two-thirds years of college training for any teaching certificate. In 1932 a third of the states were found to require four years of college training, a considerable growth over the two reported in 1912.

In his conclusions the author suggests several possible uses of this study as follows:

1. Students and experienced teachers may use it as a guide in meeting certification requirements

2. Schools will be better able to advise students in the selection of subject matter when preparing for certification in a certain state

3. Serve as a guide to industrial arts teachers in the field
4 Points out the advances of twenty years, 1912 to 1932, and indicates what may be expected in the future

**SUMMARY**

State Requirements

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</table>
The appendix of the study is given over to data received from the State of Nebraska, which reached the author too late for incorporation in the body of his work. It is stated that the requirements for 1932 are very much the same as those of 1912.

The 1932 requirements for the teaching of manual training as an industrial art were two years of college work (sixty semester hours) including eight hours in education and at least sixteen hours in manual training. These standards were set up by law. Upon them the State University and the four Normal Schools issued diplomas for teaching.

A presentation of facts regarding certification requirements for teachers of trade extension classes conducted under the National Vocational Act (Smith-Hughes) was given by Mahood. Data are given regarding the age of teachers, time spent at the trade, practice teaching required and the issuance of special certificates. This study has no significance to the present investigation, but is mentioned for the convenience of the reader.

Manning made a study of the certification requirements of the va-

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7 Mahood, Samuel C. A Study of State Certification Requirements for Teachers in Evening Industrial Schools Throughout the United States, Pennsylvania State College, State College. M. S. 1930.

8 Manning, Lionel W. The Inter-relation of Teacher Training, Salary
rious states and an evaluation of their curricula for industrial arts teacher education with reference to salaries of industrial arts teachers employed therein.

Martin's study was reviewed and found to coincide quite closely with Dougherty's study, except that part which dealt particularly with the situation in Texas; therefore no summary is submitted.

A study was made by Pawelek for the purpose of setting forth the prevailing practices in the matter of certifying teachers of industrial education, both general and vocational and to set up recommendations for improvement.

A section of the introductory material is given over to defining certain terms used. The general industrial teacher is to be interpreted to mean a teacher of subjects such as woodwork, mechanical drawing, sheetmetal work and the like in the public schools of all the states. These teachers are not under federal supervision in accordance with the Smith-Hughes Act of 1917.

The vocational industrial teacher means a teacher of the subjects mentioned above, but who is employed by a school which has the teaching

Schedules, State Certification, and Advancement of Method for Indus-

9 Martin, Samuel L. Certification of Industrial Arts Teaching in The United States, Agricultural and Mechanical College of Texas, Col-

ege Station. M. S. 1932.

10 Pawelek, Stanley J. The Certification of Industrial Teachers - A com-

parison of Minimum Standards for General and Vocational Certi-

fication in All of The States, University of Minnesota, Minneapolis, M. A. 1932.
of a trade as its controlling purpose and which receives federal aid under the above mentioned Act.

In defining his problem he states that his purpose is to ascertain and compare the existing minimum scholarship and experience requirements for teaching in both general and vocational schools and classes of the states. The items with which his study deals, in relation to the general industrial teachers, are as follows:

1. Number of years of preparation above high school
2. Number of semester hours of preparation in Special field
3. Number of semester hours of courses in education
4. Number of semester hours of practice teaching
5. Number of years certificate is valid upon first issue

All of the standards have been set up as of September 1, 1932. Material was received from all the states but one — South Carolina.

An extensive examination of the literature dealing with certification standards was made. All efforts failed to reveal any similar study on the subject and inasmuch as certification standards were continually changing, only the most immediate studies could afford any direct value. Some studies were found which tended to reveal certification trends and to indicate techniques used. Only one of these had direct bearing upon industrial teachers: Adolph Shane, Educational Requirements for Industrial Arts Teachers, Industrial Education Magazine, March 1930. A great diversity of practice in the matter of certification was reported.

Six other studies (none of them later than 1932) dealing with certification are mentioned. These all deal with the broader aspects of
certification. All are agreed on the following points:

1. Wide variation in certification standards
2. Gradual increase in standards
3. Increase in efficiency followed raising of standards

A chapter deals specifically with the certification of general industrial teachers. A table gives the minimum educational requirements (as of 1932) under five headings:

1. Years of training
2. Semester hours in special field
3. Semester hours in education
4. Semester hours in practice teaching
5. Life of certificate

Examination of this table points to a great lack of uniformity.

Pawelek states that almost all states make some sort of requirement in regard to number of hours in education courses. The general practice being about eleven to fifteen hours. He found only eight states making no mention of this requirement in their codes. There is very little standardization in the matter of making practice teaching a requirement. Certificates vary in life from one year to the life of the holder. He found little in the way of standard practice.

All information points to a great lack of uniformity in the matter of certification of general industrial teachers in all of the states. Some of the states have no specific law relative to the certification of industrial teachers but regard them in the same category with the regular high school teachers. Others require only evidence of ability without reference to the amount and type of training that the applicant
has had. Still others specify that the training must be secured in a
standard school for industrial arts, approved by the state department
of education, but without definite prescription of the amount of course
work in terms of semester hours.

While in eighteen states a certificate can be secured on the ba-
sis of two years training, twenty other states require four years or
more of training. The modal practice centers about these two points,
with only seven states exacting three, and two states permitting but
one year of preparation. It is noted that the western coast of the
United States requires four years or more of training.

Eleven of the states make no definite provision in their stan-
dards as to semester hours in shop and drawing courses. The chief in-
formation to be gathered is that there is no standard practice.

Giving the subjects involved and the hours devoted to each, an
analysis of a number of industrial arts teacher education curricula
was made by Phillips.\textsuperscript{11} He pointed out trends and possibilities.

Rost\textsuperscript{12} based his questionnaire study on the replies of 318 indus-
trial arts teachers scattered over the United States and forty-eight
state departments of education. His purpose was to determine the pro-
fessional advancement being made and the teaching standards existing.

\begin{footnotes}
Arts Teacher Training Institutions and Curricula, Oregon State Col-
lege, Corvallis. M. S. 1933.
\item[12] Rost, Grover F. Standards and Requirements for Industrial Arts
Teachers, University of Wisconsin, Madison. M. A. 1930.
\end{footnotes}
CHAPTER III

CERTIFICATION FINDINGS FOR THE SEVERAL STATES

The results of that disastrous day in 1929 when the stock market crashed have been many and varied. Every phase of our social and economic life has felt some reaction. Because of the changed financial status of thousands of families, the student population of our country has taken on new practices. And because economic pressure is so keen, the teaching profession, into which group many of these students will evolve, must needs also follow new practices. Time was when young people of college age were rarely away from home for any length of time and certainly no farther away than their own immediate State schools. Time was when teachers spent a life-time teaching in and around one small area, rarely leaving their home state for any purpose, still more rarely a position in another state. Now, a brief inspection of the directory of almost any student-body and we find the percentage of out-of-state students is astonishing. It is not unusual to find every state in the Union represented, and many foreign countries as well, in our larger educational institutions. Or a look at the allocations of any teacher placement agency substantiates the belief that no longer do teachers remain in their home towns, or home states for that matter. Today, young people are advancing themselves when and where they can and for various reasons. Possibly available work attracted them to some locality, and having saved a bit they have stayed on to attend school in their adopted state rather than pay a
portion of their earnings for transportation back home. Or perhaps non-tuition or low tuition has attracted them. In Louisiana, during the life of the Honorable Huey P. Long, no out-of-state tuition was charged and many students availed themselves of the opportunity. At Oregon State College many graduate students come from out-of-state because of no extra fees. Then again facilities in a particular field of study may not be available in their own states and they are obliged to go elsewhere to secure the desired training. This, for instance, is the case in Vermont, where no industrial arts teacher education is offered.

Another condition bringing about much change was that of the Mid-Western drought which sent thousands to other parts of the country and particularly to the West. Again, the economic phase presents itself as the predominating factor behind the ever increasing migration of people, especially young people, that is taking place today.

It is predictable that once started, this migration will continue as a definite aspect of our social life. As such it must be dealt with intelligently by those individuals and agencies, who in the ordinary scheme of things, have to do with young people.

The colleges and universities must evaluate their share in the lives of these young, ambitious, seeking novices. Schools of higher learning must endeavor to prepare young people in such a manner that they may earn a livelihood and take their places in society, not only in the vicinity of their preparation, but also in other states.

Each field of endeavor has its own modifying limitations and requirements. For teachers, state certification laws must be considered.
These laws set up standards whereby a teacher prepared in one state may migrate to another. And be it well noted that it is not upon certificates held by a migrating teacher that he is admitted to certification in another state. There is a belief held by many people to the effect that teachers, once they have a certificate, are fitted to travel and work as such anywhere in the United States. Seemingly, this idea prevails even among some teachers. But it is a fallacy of the first order, as has been well established by the results of this investigation. Once a teacher leaves his home state, where he may hold ample certification, he will find that the basis for certification in another state is his preparation rather than his previous certification.

The following excerpts will further substantiate this:

"Certificates secured in other states are not transferable to this State; neither do the laws of this State provide for the issuance of certificates by endorsement. All certificates issued in Oregon are based on the preparation which an applicant has had and not on any certificates he may hold."¹

"Work completed in standard, accredited colleges and universities, only, will be accepted as a basis for teachers' certificates, and applicants' grades must be as high as the average required for graduation from the institution attended."²

"Colorado certification may not be issued on the face of certificates of other States."³

² Oklahoma Bulletin, Regulations and Requirements for Teachers' Certificates, September 1937, Section 6, page 3.
Therefore, to bring about a thoroughly adequate and effective program of teacher education, it is essential that the schools and the certificating agencies of our country work together, not state by state, but as a unified whole.

It is with this premise in mind that the data on industrial arts teacher certification and preparation, together with "findings" for each state, setting forth its relations with the other forty-seven states in the Union, have been evaluated.

It should be kept in mind, however, that the findings are only as accurate and complete as the source material, consisting of letters from state officials, state certification bulletins, and university and college catalogs. While the greatest care has been used in checking and computing the data, it has been necessary to treat them in a generally objective manner. Hence the findings may in some instances, when judged subjectively and specifically be subject to minor corrections. This investigation has not been prepared with a view to its becoming a registrars' guide.

In order that the reader may have a more complete understanding of the factors underlying these findings, some consideration must be given to each of the principal components; namely, certification requirements and preparation.

Certification, as has already been stated, has long been a definite entity in the matter of teacher selection. And yet, the years have brought little change in some localities and certainly little uniformity. Each state has set up certain requirements that are considered es-
sentially a part of the preparation its teachers should have. In some states this preparation is of a general nature, while in others, as in California, differentiating requirements have been set up for each subject or subject-group to be taught. The following schedule shows the number of specified certification items per State:

**CERTIFICATION SPECIFICATIONS**

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<thead>
<tr>
<th>Name of State</th>
<th>Number of Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>14</td>
</tr>
<tr>
<td>Arizona</td>
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<tr>
<td>Arkansas</td>
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<tr>
<td>California</td>
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<tr>
<td>Colorado</td>
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<td>Connecticut</td>
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<td>Delaware</td>
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<tr>
<td>Florida</td>
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</tr>
<tr>
<td>Georgia</td>
<td>-- *</td>
</tr>
<tr>
<td>Idaho</td>
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<tr>
<td>Illinois</td>
<td>4</td>
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<tr>
<td>Indiana</td>
<td>11</td>
</tr>
<tr>
<td>Iowa</td>
<td>15</td>
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<tr>
<td>Kansas</td>
<td>9</td>
</tr>
<tr>
<td>Kentucky</td>
<td>3</td>
</tr>
<tr>
<td>Louisiana</td>
<td>4</td>
</tr>
<tr>
<td>Maine</td>
<td>4</td>
</tr>
<tr>
<td>Maryland</td>
<td>13</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>26</td>
</tr>
<tr>
<td>Michigan</td>
<td>11</td>
</tr>
<tr>
<td>Minnesota</td>
<td>8</td>
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<td>Mississippi</td>
<td>-- *</td>
</tr>
<tr>
<td>Missouri</td>
<td>15</td>
</tr>
<tr>
<td>Montana</td>
<td>-- *</td>
</tr>
<tr>
<td>Nebraska</td>
<td>5</td>
</tr>
<tr>
<td>Nevada</td>
<td>6</td>
</tr>
<tr>
<td>New Hampshire</td>
<td>11</td>
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<tr>
<td>New York</td>
<td>4</td>
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<tr>
<td>North Carolina</td>
<td>12</td>
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<tr>
<td>North Dakota</td>
<td>5</td>
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<tr>
<td>Ohio</td>
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</tr>
<tr>
<td>Oklahoma</td>
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<td>Oregon</td>
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<td>Pennsylvania</td>
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</tr>
<tr>
<td>Rhode Island</td>
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</table>
CERTIFICATION SPECIFICATIONS (Cont'd)

<table>
<thead>
<tr>
<th>Name of State</th>
<th>Number of Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Carolina</td>
<td>2</td>
</tr>
<tr>
<td>South Dakota</td>
<td>6</td>
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<tr>
<td>Tennessee</td>
<td>3</td>
</tr>
<tr>
<td>Texas</td>
<td>14</td>
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<tr>
<td>Utah</td>
<td>18</td>
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<tr>
<td>Vermont</td>
<td>2</td>
</tr>
<tr>
<td>Virginia</td>
<td>2</td>
</tr>
<tr>
<td>Washington</td>
<td>12</td>
</tr>
<tr>
<td>West Virginia</td>
<td>37</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>12</td>
</tr>
<tr>
<td>Wyoming</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>515</strong></td>
</tr>
</tbody>
</table>

Average per State: 11.4

Total items checked: 23065

Much variation is evident in the general complexion of these specified subject-hour requirements. Some schedules lean heavily toward the technical side as in the case of Utah, which requires eighty quarter hours of manipulative work, fifteen quarter hours of drawing, and twenty-seven quarter hours of industrial education; of Kansas, with its required forty to sixty-five semester hours of specialization; and of Massachusetts, which requires forty-eight semester hours of specified technical preparation. Other states predominate in academic requirements, as in Alabama and Kentucky. Still others consider professional education subjects the principal pre-requisite to teaching.

The schedule and graph following shows the numerous education courses commonly required and the frequency of demand in certification specifications:

* Certification data not available.
### State Specification Frequencies

#### Education and American Government

<table>
<thead>
<tr>
<th>Title of Course</th>
<th>States Specifying</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Educational Psychology</td>
<td>21</td>
</tr>
<tr>
<td>2 No Detail *</td>
<td>19</td>
</tr>
<tr>
<td>3 Special Methods</td>
<td>16</td>
</tr>
<tr>
<td>4 Secondary Education</td>
<td>13</td>
</tr>
<tr>
<td>5 Principles of Teaching</td>
<td>11</td>
</tr>
<tr>
<td>6 General Methods</td>
<td>10</td>
</tr>
<tr>
<td>7 History of Education</td>
<td>7</td>
</tr>
<tr>
<td>8 General Psychology</td>
<td>7</td>
</tr>
<tr>
<td>9 Administration</td>
<td>7</td>
</tr>
<tr>
<td>10 Tests and Measurements</td>
<td>5</td>
</tr>
<tr>
<td>11 Guidance</td>
<td>4</td>
</tr>
<tr>
<td>12 Health Education</td>
<td>3</td>
</tr>
<tr>
<td>13 Adolescent Psychology</td>
<td>2</td>
</tr>
<tr>
<td>14 Applied Psychology</td>
<td>2</td>
</tr>
<tr>
<td>15 Introduction to Education</td>
<td>1</td>
</tr>
<tr>
<td>16 Curriculum Organization</td>
<td>1</td>
</tr>
<tr>
<td>17 Psychology for Teachers</td>
<td>1</td>
</tr>
<tr>
<td>18 Psychology</td>
<td>1</td>
</tr>
<tr>
<td>19 History of I.A. Education</td>
<td>2</td>
</tr>
<tr>
<td>20 American Government</td>
<td>5</td>
</tr>
</tbody>
</table>

* Specification of a minimum number of credits in education courses, without detailing subjects required.
The first eighteen items are professional courses in education and psychology. It will be noted that item number one -- Educational Psychology -- appears in the certification specifications of twenty-one states. Item number two -- No Detail -- means that the education specification was given in a lump sum. This occurred nineteen times.

Item number nineteen -- History of Industrial Arts Education -- appeared twice, while item number twenty -- American Government -- was specified in the requirements of five states.

While Arizona and California require graduate work of teachers of general secondary school subjects only, two states -- Washington and Oregon -- set up graduate work as a requirement for all certification, including industrial arts teachers. The former requires forty-five term hours; the latter fifteen term hours. However, after February 10, 1943, Oregon will also require forty-five term hours of graduate credit.

New Mexico and Idaho require a specified amount of work to be completed within the State. Rhode Island requires that all teachers employed have four hundred clock hours (twenty-two and a half semester hours) practice teaching in the public schools of Rhode Island.

Quite as much variation and lack of uniformity was found in all the curricula studied. In fact, such a lack of uniformity of hours and subjects was encountered as to make certification and curricula comparisons extremely difficult. Questions were constantly arising as to whether "Psychology of Human Nature" or "Psychology for Teachers" was synonymous with "Educational Psychology"; whether the "Social Studies"
group hours in one case included "Speech and History" as prevailed in another; whether the industrial arts major requirement included education and technical hours or merely technical. The difficulty of concentrating a sufficient quantity of the industrial arts technical courses at one-hour value, to give the equivalent of those same courses offered for a three-hour value elsewhere, was another problem. It was noticeable that Florida and Texas, as well as Colorado, offer many low credit-value manipulative courses. In some instances, detailed and time-consuming search of the school catalogues was productive, but too often these references proved to be so poorly organized and compiled as to only confound rather than clarify.

But these difficulties, while no less important and the cause of immeasurable confusion to students and certificating agencies, are what may be termed "surface dissimilarities." It was found that underlying these were greater influences of far-reaching significance. These appear to fall into four divisions; i.e.,

**Federal Subsidy:** Financial assistance from the central government such as is found in Smith-Hughes Vocational programs. States, for example, where the curricula offered appear to be so influenced are:

**Utah - the Utah Agricultural College prescribes**

<table>
<thead>
<tr>
<th>8 quarter hours</th>
<th>Animal Husbandry</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 &quot; &quot;</td>
<td>Horticulture</td>
</tr>
<tr>
<td>3 &quot; &quot;</td>
<td>Agronomy</td>
</tr>
<tr>
<td>3 &quot; &quot;</td>
<td>Farm Machinery</td>
</tr>
<tr>
<td>3 &quot; &quot;</td>
<td>Farm Management</td>
</tr>
<tr>
<td>3 &quot; &quot;</td>
<td>Farm Utilities</td>
</tr>
<tr>
<td>3 &quot; &quot;</td>
<td>Farm Structures</td>
</tr>
</tbody>
</table>

These are specified subjects in the industrial arts curriculum, presumably because the industrial arts teachers of that state
may, actually or theoretically, teach farm shop work. Even so, there is still a question of, why the first three specifications.

California - the San Jose Teachers' College schedules

3 quarter hours Animal Husbandry
3 " " Dairying
3 " " Horticulture

for the industrial arts teacher preparation curriculum.

Minnesota - the University of Minnesota includes

2 quarter hours Philosophy Vocational Education
2 " " Related Subjects
2 " " Day Industrial Schools
2 " " Part-time Education
2 " " Practice Vocational Education
2 " " Analysis

While it is desirable that industrial arts teachers know something of the history, legislation and philosophy of vocational education, and of the technique of analysis (job or trade), it is probable that the other courses listed go into the details of vocational methods and objectives more deeply than the objectives of industrial arts would warrant -- unless the teachers also have the required trade experience to utilize that training as trade teachers.

Parent Schools: Instances where industrial arts departments have drawn upon other affiliated departments in the institution and upon other schools in the university or college, apparently without a great measure of coordination or control (advisory or otherwise) over the subject-matter content of the courses. States wherein the curricula show this influence are:

Colorado - the Colorado State College of Education, Greeley, requires

6 quarter hours Art Appreciation
6 " " Music Appreciation
4 " " Principles of Art Design
2 " " Lettering
2 " " Pottery
as evidence of its connection with the Art Division of the College.

South Carolina - the Clemson Agricultural College prescribes as part of the industrial arts curriculum

3 semester hours Mechanical Engineering
2 " " Metallurgy
19 " " Physics and Chemistry

These courses indicate an engineering influence although the Industrial Arts Department is in the School of Vocational Education.

Academic:- Instances wherein the older idea of liberal arts still predominates. Curricula in the following states appear to show this type of influence:

Wyoming - the University of Wyoming, Laramie, includes

16 quarter hours Foreign Language
*18 " " English

Kentucky - the Western Kentucky State Teachers' College, Bowling Green requires

*12 semester hours English
12 " " Foreign Language

Industrial arts teacher preparation is based upon these foundation courses.

Local:- An influence that enters into most industrial arts programs to some degree, depending upon the intensity of industrial or commercial activities and their relationship to economic life. South Carolina and North Carolina, as well as California, curricula recognize local needs; the first with its courses in loom work and textiles, the second with its furniture design and rod turning; and California with its automotive-transport, and pumps and irrigation courses.

These influences are known to modify the certification require-

* While English is basic, and should be required in all cases, these requirements are much heavier than normal.
ments as well. Thus, it was discovered that another disturbing factor entered in; namely, that of endeavoring to measure a product of a "Federal Subsidy-influenced-curriculum" by a set of "academically-influenced" certification requirements; a product of an "academically-influenced-curriculum" by a set of "parent-school-influenced" certification requirements, and so on.

Another differentiating factor was that of specialization emphasis. As has been mentioned, certain states prepare industrial arts teachers for teaching in that field only. Certification requirements are very specific as to technical preparation and hour concentration for each subject taught. Some of the States in this category are: Arizona, California, Pennsylvania, New Jersey, Ohio, Wisconsin, and Iowa. Another group of States, some of which are North Dakota, Oregon, Alabama, and Washington, require industrial arts major preparation and stipulate basic industrial arts requirements. These certification requirements are usually less specific and tend more to "lump sum" hour specifications for major and minor field requirements. A third group permits major preparation in industrial arts but offers no prescribed courses or curriculum for basic preparation. In these the available courses are usually garnered from various other departments and schools and the result is often "without rhyme or reason."

Thus appears a second disturbing factor in this matter of interstate certification -- that of trying to enable a "special-industrial-arts curriculum" prepared product to meet certification requirements based upon a divided emphasis, requiring major and minor teaching
fields. In many instances, the special curriculum does not offer a minor teaching certification requirement. On the other hand, the divided emphasis curriculum is often unable to offer sufficient technical preparation to meet the specialized certification requirements.

A third factor has to do with the amount of preparation required for certification. When selecting a school or schools within a given state for the purpose of curriculum analysis, the recommendations of a state official were followed, when possible. No recommendation being available, the school or schools were selected which appeared strongest in view of an analysis of college catalogues. In no instance were two schools found wherein the extent and details of the offerings for the preparation of industrial arts teachers were the same, not even within a single state. There may be good and sufficient reasons for these differences, yet, all schools in a given state are preparing industrial arts teachers for certification in that state.

Classifying the states on a basis of the amount of specialization including academic and general background subjects, courses in the science, philosophy and general methods of education, and the technical professional, and applied methods courses of industrial arts education, it was possible to classify the states under four sections as follows:

None:- States in which the standard universities or colleges offer no industrial arts teacher preparation and make no attempt to do so

Arkansas
Delaware
Georgia

Montana
Vermont
Virginia

Limited:- States in which the standard universities or colleges offer only a few courses but do attempt
to prepare industrial arts teachers

Alabama                Nevada
Florida                New Mexico
Idaho                  Rhode Island
Kentucky               South Dakota
Maryland               Tennessee
Wyoming

Average: States whose institutions offer programs sufficient in scope to meet usual demands and regularly prepare industrial arts teachers

Colorado              New Hampshire
Connecticut            North Carolina
Illinois               North Dakota
Louisiana              South Carolina
Michigan               Texas
Mississippi            Utah
Missouri               Washington
Nebraska               West Virginia

Comprehensive: Those states having programs offering more in comparison to the former and making a specialty of preparing industrial arts teachers

Arizona                New Jersey
California             New York
Indiana                Ohio
Iowa                   Oklahoma
Kansas                 Oregon
Massachusetts          Pennsylvania
Minnesota              Wisconsin

The map on page 46 gives a graphic presentation of the preceding classification.

In brief, some of the underlying factors modifying the correlation of "certification requirements" and "curricular preparation" as set forth in the subsequent "Findings" for each of the states are:

1 Underlying influence or influences
2 Appropriateness of content
3 Quantity of content

Note: See page 118 for explanation concerning Maine classification.
4 Uniformity of mechanical features
5 Uniformity of terminology and credit hours

TABLES OF FINDINGS FOR EACH STATE:— The following tables summarize the possibilities of interstate certification for graduates of the industrial arts curricula of the schools recommended by the respective state departments of education. The state in which the training was received is named at the top of each respective table. In the left column are the names of the other states, followed by notations of "Qualified", or "Unqualified" and by brief statements of deficiencies or other annotations. On page 47 will be found explanations of the "checking terms" used in compiling these tables, by which the deficiencies, if any, were noted.
CHECKING TERMS
used in
RATING EACH STATE AGAINST ALL OTHERS

1. Qualified ---- Required both for certification in the state under consideration and for graduation from the industrial arts curriculum of the designated school or schools of the states indicated in the left margins of the "findings" sheets.

2. Unqualified ---- Not required for certification
   Not required by industrial arts curriculum
   Not given by schools at all so far as shown by catalog

3. Assumable ---- Not required for certification
   Given as required in industrial arts curriculum

4. Provisional ---- Not required in certification specifications
   Not required in industrial arts curricula
   Offered by schools

5. Possible ----- Lump sum required for certification
   No industrial arts curriculum offered
   Possibly subject can be taken

6. Possible ----- Not enough required by certification
   No industrial arts course prescribed
   Believe school offers needed amount

7. Possible ----- Not enough required by certification
   No industrial course prescribed
   Nothing offered in schools

8. Assumable ---- Not enough required by certification
   Enough required by industrial arts course prescribed

9. Assumable ---- Not enough required for certification
   Deficient in industrial arts curriculum
   Believe school offers enough

10. Possible ----- Not enough required for certification
   Not enough required by industrial arts curriculum
   Not enough given by schools
11. Possible ----- Not required by certification rules
Deficient in industrial arts curriculum
Given by schools

12. Unqualified -- Required by certification specifications
No industrial arts curriculum offered
No course or department in school
FINDINGS
for the
STATE OF ALABAMA *

ARIZONA: Qualified for the Special Certificate entitling the holder to teach industrial arts in grades 1 to 12 inclusive

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain academic and industrial education courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education, valid for teaching industrial arts subjects as indicated upon the credential; lack technical preparation in specified subjects

COLORADO: Qualified for the Graduate Temporary Certificate that permits the teaching of any subject (including the special subject of industrial arts) in any school in Colorado

Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack certain academic requirements

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts, requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack large number of technical course requirements

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack certain education courses

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the

* Includes holders of certificates valid for teaching industrial arts in Alabama, and based on graduation from the industrial arts curriculum at Alabama Polytechnic Institute, Auburn, Alabama.
teaching of the individual industrial arts subject endorsed therein.

GEORGIA: No certification data received and no industrial arts teacher preparation given as such.

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied.

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts, providing the above stated residence requirements are satisfied.

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts.

INDIANA: Unqualified for the Special License valid in the high and elementary schools for the teaching of industrial arts; lack sufficient technical credits.

Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior high, and 7-8 grades.

IOWA: Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate, in the grades and high schools; lack sufficient technical preparation to equal that prescribed in a special industrial arts curriculum in Iowa, as required.

Qualified for the Standard Secondary Certificate valid for teaching the preparation major (industrial arts) in the 7-8 grades and high school.

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient technical credits.

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject.

LOUISIANA: Qualified to teach industrial arts in the high schools.

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach the subject of industrial arts in both the high schools and elementary grades.

Qualified for the First Provisional Professional Certificate, the regular secondary credential.
MARYLAND: \textit{Unqualified} for the Special Certificate to teach industrial arts; lack certain specified technical work that appears not to be offered by the curriculum

MASSACHUSETTS: \textit{Unqualified} for teaching industrial arts in the high schools for lack of sufficient hours in education, culture and technique and for lack of specified subject courses - Massachusetts requires training of a comprehensive and specific nature

MICHIGAN: \textit{Qualified ( Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing it is possible to substitute for one specified education course

MINNESOTA: \textit{Qualified} for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools

MISSISSIPPI: Certification requirements reported as being in process of change; no data available at this time

MISSOURI: \textit{Unqualified} for the First-Class High School Industrial Arts Specific Subject-matter Certificate; lack academic and education courses to meet specified requirements

MONTANA: No preparation is given for the teaching of industrial arts in Montana. A three-year trade experience requirement in effect there would bar many teachers of industrial arts from out-of-state

NEBRASKA: \textit{Qualified} for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: \textit{Qualified} for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: \textit{Unqualified} to meet requirement of graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: \textit{Unqualified} to meet ten-week practical experience requirement, a bar to many out-of-state prepared industrial arts teachers

NEW MEXICO: \textit{Qualified ( Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: \textit{Qualified} for the Provisional Certificate valid for teaching industrial arts
NORTH CAROLINA: Qualified for the High School Teachers’ Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring 40 semester hours in that subject; lack sufficient technical credits

Qualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject

OKLAHOMA: Unqualified for the One Year Certificate, based on two years of training and valid for special subjects only, for lack of specified courses in education, technical and academic subjects

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts, for lack of specified courses in education, technical and academic subjects

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours of graduate work and courses in Oregon History, and Oregon School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th for the above reasons

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical courses to meet concentrated hour-subject requirement

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical courses to meet concentrated hour-subject requirement

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid
for teaching industrial arts in high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack specified technical and professional industrial arts requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and the completion of a four year college course

VIRGINIA: Qualified because only certification requirement is degree preparation which shall include 12 semester hours of industrial arts training

WASHINGTON: Unqualified for lack of 45 term hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack sufficient hours of industrial arts preparation

WISCONSIN: Unqualified for lack of technical course hours to meet requirement

WYOMING: Qualified

SUMMARY

Qualified -- 22 states
Unqualified -- 22 states

CURRICULUM SOURCE

Alabama Polytechnic
Auburn, Alabama
FINDINGS
for the
STATE OF ARIZONA *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain academic subject

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential; lack technical preparation in specified subjects

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts, requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for the teaching of manual or industrial education in all high schools; lack sufficient technical course requirements

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the

* Includes holders of certificates valid for teaching industrial arts in Arizona, and based on graduation from the industrial arts curricula at the Arizona State Teachers' Colleges at Tempe and Flagstaff.
teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts, providing the above stated residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior high, and 7-8 grades

Qualified for the Special License valid in the high and elementary schools for the teaching of industrial arts

IOWA: Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate, in the grades and high schools

Qualified for the Standard Secondary Certificate valid for teaching the preparation major (industrial arts) in the 7-8 grades and high schools

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach the subject of industrial arts in both the high schools and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential
MARYLAND: Qualified for the Special Certificate to teach industrial arts

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in certain academic and technical subjects

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one specified education subject requirement

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate; lack academic subject hours and one specified education course

MONTANA: No preparation is given for the teaching of industrial arts in Montana. A three-year trade experience requirement in effect there would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified to meet requirement of graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified because ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to
teach industrial arts

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State

**Qualified** for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: **Qualified** for the Industrial Arts Certificate requiring a 40 semester hour major in that subject

**Qualified** for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject

OKLAHOMA: **Unqualified** for the One Year Certificate, based on two years of training and valid for special subjects only; lack specified subject requirements in education and technique

**Unqualified** for the Life Certificate based on four years of training and valid for special subjects only in industrial arts, for lack of specified subject requirements in education and technique

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours of graduate work and courses in Oregon History and School Law

**Unqualified** for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th for the above reasons

Pennsylvania: **Qualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon

**Qualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon

Rhode Island: **Unqualified** because of 400 clock hour (22½ semester hours) practice teaching residence requirement

South Carolina: **Qualified** because able to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present

South Dakota: **Qualified** for the High School Special Certificate valid for teaching industrial arts in high schools

Tennessee: **Qualified** for the Professional High School Certificate
with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack specified technical and professional industrial arts requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and the completion of a four-year college course

VIRGINIA: Qualified because only certification requirement is degree preparation, which shall include 12 semester hours of industrial arts training

WASHINGTON: Unqualified for lack of 45 term hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack professional industrial subjects and academic subjects

WISCONSIN: Unqualified for lack of technical and academic hours to meet requirement and a specified education course

WYOMING: Qualified

SUMMARY

Qualified -- 31 states
Unqualified -- 13 states

CURRICULA SOURCES

Arizona State Teachers' College
Tempe, Arizona

Arizona State Teachers' College
Flagstaff, Arizona
Arkansas State institutions of higher learning do not offer either courses or curricula for industrial arts teacher education. Under these circumstances, Arkansas graduates and teachers have been considered unqualified to meet the industrial arts certification specifications of the other states.

The 1937-38 catalogue for the University of Arkansas at Fayetteville, gives no prescribed industrial arts course. The few courses available which might possibly be included in an industrial arts curriculum are the manipulative courses offered in the Department of Mechanical Engineering.

Very much the same is true of the Arkansas Polytechnic College.

Inspection of the Henderson Teachers' College, Arkadelphia, catalogue failed to reveal any evidence of definite courses for industrial arts teacher education.

Arkansas has considerable in the way of demands for industrial arts certification but contributes very little toward specialized preparation. It is interesting to note that a Master's thesis by Harry A. Phillips, Oregon State College, (1933), entitled "A Critical Study and an Evaluation of Industrial Arts Teacher Training Institutions and Curricula" lists nothing for Arkansas. Evidently no changes have been made in their industrial arts teacher education situation during the past five years.
FINDINGS
for the
STATE OF CALIFORNIA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in academic subjects

ARIZONA: Qualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive

ARKANSAS: Qualified (Provisionally) for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State providing substitution can be made for one specified education course

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts, requiring less than half time

DELAWARE: Qualified for the Special Branches Certificate valid for the teaching of manual or industrial education in all high schools in the State

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for teaching industrial arts in California and based on graduation from the industrial arts curricula at the State Colleges at Chico, San Jose, and Santa Barbara, California.

* Includes holders of certificates valid for teaching industrial arts in California and based on graduation from the industrial arts curricula at the State Colleges at Chico, San Jose, and Santa Barbara, California.
ing the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and Georgia gives no industrial arts preparation as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts, providing the above stated residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior high, and 7-8 grades providing substitution can be made for one education course

Qualified (Provisionally) for the Special License valid in high and elementary schools for the teaching of industrial arts providing substitution can be made for one education course

IOWA: Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate, in the grades and high schools

Qualified for the Standard Secondary Certificate valid for teaching the preparation major (industrial arts) in the 7-8 grades and high schools

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools of the State

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach the subject of industrial arts in both the high and elementary grade schools
Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Qualified for the Special Certificate to teach industrial arts

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of specified technical and education courses

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one education course

MISSISSIPPI: Certification requirements reported as being in process of change -- data not available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter certificate valid for teaching in the first-class high schools; lack academic subject hours and certain specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana. A three-year trade experience requirement in effect there would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEW JERSEY: Unqualified because ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts
NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring a 40 semester hour major in that subject; lack certain specified education courses

Unqualified for the Industrial Arts Certificate requiring a 16 semester hour minor preparation; lack certain specified education courses

OKLAHOMA: Unqualified for the One Year Certificate, based on two years of training and valid for special subjects only, for lack of specified technical, academic, and education courses

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts, for lack of specified technical, academic, and education courses

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th because lack 15 quarter or term hours graduate work and courses in Oregon History and School Law

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack adequate hour-subject concentration to meet requirement

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hour-subject concentration to meet requirement

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified because able to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present — committee now at work on more specific requirements
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack specified technical, academic and education courses

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and the completion of a four-year college course

VIRGINIA: Qualified because only certification requirement is degree preparation which shall include 12 semester hours of industrial arts training

WASHINGTON: Unqualified because lack 45 term hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack sufficient hours of academic and education courses and certain specified technical courses

WISCONSIN: Unqualified for lack of sufficient academic course hours and a certain specified education course

WYOMING: Qualified

SUMMARY

Qualified -- 30 states
Unqualified -- 14 states
CURRICULA SOURCES

Chico State College
Chico, California

San Jose State College
San Jose, California

Santa Barbara State College
Santa Barbara, California
FINDINGS for the STATE OF COLORADO *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack required number of hours in academic and education courses

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack required number of hours in education and practice teaching

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack sufficient hours in certain specified technical and professional industrial arts subjects

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack technical preparation in specified subjects

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts, requiring less than half time

DELWARE: Unqualified for the Special Branches Certificate valid for the teaching of manual or industrial education in all high schools; lack sufficient hours in practice teaching

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient hours practice teaching

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

* Includes holders of certificates valid for teaching industrial arts in Colorado and based on graduation from the industrial arts curriculum at Colorado State Agriculture and Mechanical College, Fort Collins, Colorado.
GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: **Qualified (Provisionally)** for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

**Qualified (Provisionally)** for the State Specialists' Certificate valid for teaching only industrial arts, providing the above stated residence requirements are satisfied

ILLINOIS: **Qualified** for the Limited State Special Certificate to teach industrial arts

INDIANA: **Qualified** for the Special License valid in the high and elementary schools for the teaching of industrial arts

**Qualified (Provisionally)** for the Regular Certificate or License valid for teaching industrial arts in the high, junior high and 7-8 grades providing substitution can be made for one specified education course

IOWA: **Qualified** for the Standard Secondary Certificate valid for the teaching of the preparation major (industrial arts) in the 7-8 grades and high schools

**Qualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on certificate in the grades and high school

KANSAS: **Qualified (Provisionally)** for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: **Qualified** for permission to teach industrial arts as a major or minor subject

LOUISIANA: **Qualified** to teach industrial arts in the high schools of the State

MAINE: **Qualified** for the Special Provisional Certificate the holders of which may teach the subject of industrial arts in both the high schools and elementary grades

**Qualified** for the First Provisional Professional Certificate, the regular secondary credential
MARYLAND:  Unqualified for the Special Certificate to teach industrial arts; lack sufficient hours of directed teaching and one specified technical subject

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient academic and education subject hours and specified technical courses

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack sufficient hours directed teaching and certain specified education courses

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be made for one specified education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching in the first-class high schools; lack certain specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana. A three-year trade experience requirement in effect there would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified because requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified because ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate
to teach industrial arts; lack sufficient subject-hour concentration to meet high minor field requirements in North Carolina

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State

**Qualified** for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: **Unqualified** for the Industrial Arts Certificate requiring 40 semester hours in that subject; lack sufficient technical subject hours

**Qualified** (Provisionally) for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject providing substitutions can be made for two specified education courses

OKLAHOMA: **Unqualified** for the One Year Certificate, based on two years of training and valid for special subjects only, for lack of certain specified technical and education subjects

**Unqualified** for the Life Certificate based on four years of training and valid for special subjects only in industrial arts, for lack of certain specified technical and education subjects and sufficient hours of directed teaching

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and School Law

**Unqualified** for the Standard Four Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in any high school or junior high school that includes one or more grades above the 8th for the above reasons

PENNSYLVANIA: **Unqualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours directed teaching and subject-hour concentration to satisfy requirements

**Unqualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the same reason as stated above

RHODE ISLAND: **Unqualified** because of 400 Clock hour (22 1/2 semester hour equivalent) practice teaching residence requirement

SOUTH CAROLINA: **Qualified** because able to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack specified technical and professional industrial arts subject requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond completion of a four-year college course which must include 12 semester hours professional education

VIRGINIA: Qualified because only certification requirement is degree preparation, which shall include 12 semester hours of industrial arts

WASHINGTON: Unqualified for lack of 45 term hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack sufficient hours directed teaching and certain specified education and technical courses

WISCONSIN: Unqualified for lack of technical course hours and one specified education course

WYOMING: Qualified

SUMMARY

Qualified -- 23 states
Unqualified -- 21 states

CURRICULA SOURCES

Colorado State College of Education
Greeley, Colorado

Colorado State A. & M. College
Fort Collins, Colorado
FINDINGS
for the
STATE OF CONNECTICUT *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack hours in specified academic and education courses

ARIZONA: Qualified (Provisionally) for the Special Certificate entitling the holder to teach industrial arts in any of the first twelve grades providing a substitution can be made for one specified education course

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; hours in specified academic, education and technical courses lacking

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education, valid for teaching industrial arts subjects as indicated upon the credential; lack preparation in certain specified technical subjects

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack hours in certain academic subjects and a specified technical course

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado for same reasons stated above

DELAWARE: Qualified (Provisionally) for the Special Branches Certificate valid for the teaching of manual or industrial education in all high schools providing a substitution can be made for one specified education course

Qualified (Provisionally) for the Special Subject Certificate valid for teaching both the high and elementary grades the subject of "Fine and Industrial Arts" if above stated substitution is possible

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed

* Includes holders of certificates valid for teaching industrial arts in Connecticut, and based on graduation from the industrial arts curriculum at The Teachers' College of Connecticut, New Britain, Connecticut.
Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above stated residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior high and 7-8 grades

Qualified for the Special License valid in high and elementary schools for teaching industrial arts

IOWA: Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject industrial arts; lack sufficient concentration of hours for a teaching minor

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high schools

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate valid for teaching industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the
regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts because lack hours in specified technical subject

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education, manipulative and academic courses

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools

MISSISSIPPI: Certification requirements reported as being in process of change; no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork and drawing and other 5 semester hour industrial arts subjects in the first-class high schools; lack certain academic subject hours and one specified education subject

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a bar to many industrial arts teachers from out-of-state is the three-year trade experience requirement

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified because requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified because ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts
NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts for lack of sufficient academic course-hour concentration to meet minor teaching field requirement

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Qualified (Provisionally) for the Industrial Arts Certificate requiring a 40 semester hour major in that subject providing a substitution can be made for one specified education course

Qualified (Provisionally) for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject providing a substitution can be made for one specified education course

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and valid for special subjects only, for lack of certain specified education and technical courses

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts, for lack of certain specified technical and education courses

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in the junior high schools that include one or more grades above the 8th; lack above stated graduate work and courses

Pennsylvania: Qualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon

Qualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present - committee now at work on more specific regulations
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts
Qualified for the Special 4 Year Certificate to teach industrial arts
Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack industrial education courses and specified education courses

VERMONT: Qualified for the General High School Teaching Certificate — at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours professional education and the completion of a four year college course

VIRGINIA: Qualified because give required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified because lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack nine subject specifications in various fields

WISCONSIN: Unqualified for lack of certain specified education courses and hours in a certain academic subject

WYOMING: Qualified

SUMMARY

Qualified -- 27 states
Unqualified -- 17 states

CURRICULUM SOURCE

The Teachers' College of Connecticut
New Britain, Connecticut
FINDINGS
for the
STATE OF DELAWARE

In the absence of a definite recommendation by the State Superintendent of Public Instruction of a State institution or institutions offering industrial arts teacher preparation, the University of Delaware, Newark, was chosen as the source of information for this study. However, an examination of the 1937-38 catalog for that institution reveals that no industrial arts courses are offered. Reference to the section on courses available in the Mechanical Engineering Department finds only a few suitable for the technical preparation of industrial arts and no professional courses in industrial education were offered.

Evidently little change, if any, has been made in the development of the industrial arts field in Delaware since 1933, as Phillips listed no schools in Delaware giving industrial arts preparation.

As in the case of Arkansas, Delaware has considerable in the way of demands for industrial arts certification but contributes very little toward specialized preparation.

FINDINGS
for the
STATE OF FLORIDA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack certain specified education courses and hours in certain academic subjects.

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack sufficient technical hours and certain specified education courses.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain academic subject hours and certain specified education courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential; lack specified technical courses and sufficient hours of directed teaching in industrial arts.

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack certain specified education and technical courses.

Unqualified for the Graduate Temporary Certificate to teach industrial arts or any other subject in any school in Colorado.

CONNECTICUT: Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject; lack sufficient subject-hour concentration to meet requirements.

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than 50% of time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical and professional industrial arts credit hours.

Unqualified for the Special Subject Certificate valid for teaching in

* Includes holders of certificates valid for teaching industrial arts in Florida and based on graduation from the industrial arts curriculum at the University of Florida, Gainesville, Florida.
both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient technical hours and certain specified education courses

GEORGIA: No certification data received and no preparation as such offered for education of industrial arts teachers

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, valid for teaching any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitutions can be made for two specified education courses

Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical hours

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the major subject preparation (industrial arts)

Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on certificate in the grades and high school; lack four years specialization in industrial arts

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient specialization besides a specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Unqualified to teach industrial arts in the high schools of the State; appears to be no drawing courses offered

MAINE: Unqualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high school and ele-
mentary grades; lack adequate 3 year industrial arts course preparation

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack too many specified subjects

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education and specified technical courses

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitutions can be made for two specified education courses

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack certain specified technical courses and some in education

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate; lack certain academic subject hours and a specified education course

MONTANA: No preparation is given for the teaching of industrial arts in Montana. A three-year trade experience requirement in effect there would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack sufficient hour concentration to meet major and minor field requirements

NEW HAMPSHIRE: Unqualified because requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- a ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 se-
mester hours in residence and "Problems in Education in New Mexico" are satisfied.

NEW YORK: Unqualified for the Provisional Certificate valid for teaching industrial arts; lack sufficient technical courses and a special four year course in industrial arts.

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack sufficient technical hours and certain specified subjects in education.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate valid for teaching in any of the public schools of the State.

Qualified for the Special Certificate valid for teaching only the subject named thereon.

OHIO: Unqualified for the Industrial Arts Certificate requiring 40 semester hours in that subject; lack technical course hours and specified education subjects.

Unqualified for the Industrial Arts Certificate requiring 16 semester hour minor in that subject; lack specified education subjects.

OKLAHOMA: Unqualified for the One Year Certificate, based on two years of training and valid for special subjects only, for lack of specified subject courses.

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts; lack specified technical, education and academic courses.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 term hours of graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in the junior high schools that include one or more grades above the 8th for the above stated reasons.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical courses and sufficient concentration of technical hours to meet requirement.

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical courses to meet concentrated subject-hour requirement.
RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTHERN CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in the high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate because lack sufficient technical and industrial education courses to meet requirement

VERMONT: Qualified because at present Vermont has no industrial arts teacher certification requirements beyond the completion of a four-year college course that includes 12 semester hours professional education -- the General High School Teaching Certificate is used

VIRGINIA: Qualified because give required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack sufficient industrial education courses and also academic courses and specified courses in education

WISCONSIN: Unqualified for lack of sufficient technical and academic courses to meet requirement as well as specified education courses

WYOMING: Qualified
SUMMARY

Qualified -- 18 states
Unqualified -- 26 states

CURRICULUM SOURCE

University of Florida
Gainesville, Florida
FINDINGS
for the
STATE OF GEORGIA

Failing to hear from Mr. M. E. Thompson, Director of Teacher Training and Certification in the State Department of Education, Atlanta, as to State institutions of higher learning offering industrial arts teacher preparation in Georgia, the catalogues of two schools were examined.

That of the University of Georgia, Athens, failed to give any definite information on the subject. In fact, even as an education course for elementary grade teacher preparation, no mention was made of industrial arts. Hence it appears that the University is not a source of preparation.

The catalogue of the Georgia School of Technology revealed that the School has an Industrial Education Department for the purpose of training trade and related industrial teachers for evening classes, all-day trade, public and plant part-time and foremanship courses. No definite curriculum is set up nor is credit given toward graduation. Apparently there is no organized preparation in the State of Georgia for industrial arts teachers.
FINDINGS
for the
STATE OF IDAHO

Idaho is another of the states in which industrial arts has much room for development. To quote Mr. Douglas Hiltz, Certification Clerk of the Department of Education, Boise: "The real truth of the matter is that Idaho does not have many such teachers and no such certificate. Our high school certificate, which is a blanket affair covering all work in grades seven to twelve, has been all that we have used."

This information is fully substantiated by the findings of this study for the State of Idaho. The preparation for industrial arts teaching given in the institutions of higher learning there meets the certification requirement of but five states, which are:

LOUISIANA: Qualified to teach industrial arts in the high schools -- require but 12 semester hours shop work and drawing and 12 semester hours education besides degree

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate valid to teach in any of the public schools in the State but requiring no technical preparation

SOUTH CAROLINA: Qualified because no technical preparation required

VERMONT: Qualified because no industrial arts teacher certification required beyond degree preparation that includes 12 semester hours of professional education

VIRGINIA: Qualified to satisfy degree preparation requirement that includes 12 semester hours of industrial arts training

Examination of the University of Idaho catalogue, 1937-38, gives the information that certain courses in Motor Mechanics and Carpentry are taught in connection with the Trade-Training Division of State Department of Education. Some twenty of these courses are available.
However, they do not carry University credit so would be of little use to students preparing for the teaching of industrial arts. Only 12 semester hours of credit covering six manipulative courses are available for industrial arts teachers.
FINDINGS
for the
STATE OF ILLINOIS *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Qualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain academic subjects as well as certain specified technical and education courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack specified education and technical subjects

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Qualified (Provisionally) for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado providing a substitution can be made for one education course

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical preparation and practice teaching hours

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient hours practice teaching and technical preparation

* Includes holders of certificates valid for teaching industrial arts in Illinois and based on graduation from the industrial arts curriculum at Bradley Polytechnic, Peoria, Illinois.
FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts preparation as such available

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and High School Course of Study are met

Qualified (Provisionally) for the State Specialists’ Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

INDIANA: Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitutions can be made for two education courses

Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical course hours

IOWA: Qualified for the Standard Secondary Certificate valid for teaching the major subject of preparation (industrial arts) in the 7-8 grades and high schools

Qualified for the Special Subject Certificate valid for teaching the subject or subjects of industrial arts designated on certificate in the grades and high schools

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours in technical preparation and certain specified courses in education

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high schools and elementary grades

Qualified for the First Provisional Professional Certificate, the
regular secondary credential

MARYLAND: **Qualified** (Provisionally) for the Special Certificate to teach industrial arts providing one specified education course may have a substitution made for it

MASSACHUSETTS: **Unqualified** for teaching industrial arts in the high schools for lack of sufficient hours directed teaching, education, academic and specified subject hours

MICHIGAN: **Unqualified** for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack hours in education and directed teaching

MINNESOTA: **Unqualified** for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack hours directed teaching and also sufficient technical hours

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: **Unqualified** for the First-Class High School Industrial Arts Specific Subject-matter Certificate; lack hours in academic subjects and directed teaching and certain specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana. A three-year trade experience requirement in effect there would bar many teachers of industrial arts from out-of-state

NEBRASKA: **Unqualified** for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive; lack sufficient hours directed teaching

NEVADA: **Unqualified** for the Regular High School Certificate to teach in any high school in the State; lack sufficient hours directed teaching

NEW HAMPSHIRE: **Unqualified** -- requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: **Unqualified** -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: **Qualified** (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied
NEW YORK: Unqualified for the Provisional Certificate valid for teaching industrial arts; lack hours in practice teaching and technique

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack sufficient hours practice teaching

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring 40 semester hours in that subject; lack technical and practice teaching hours and also a specified education course

Unqualified for the Industrial Arts Certificate requiring 16 semester hours in that subject; lack specified education subject and sufficient hours in practice teaching

OKLAHOMA: Unqualified for the One Year Certificate, based on two years of training and valid for special subjects only, for lack of specified subject requirements in technique and academic and sufficient hours practice teaching and education

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts for above stated reasons

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high and junior high schools that include one or more grades above the 8th; lack 15 term hours graduate work and courses in Oregon History and School Law

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours practice teaching and adequate subject concentration

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours practice teaching and adequate subject concentration

RHODE ISLAND: Unqualified because of 400 clock hour (22 1/2) semester
hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and professional industrial arts requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- the only certification requirement is degree preparation which shall include 12 semester hours of industrial arts training

WASHINGTON: Unqualified for lack 45 term hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching industrial arts in the secondary and elementary schools for lack of specified professional industrial arts courses and sufficient hours in practice teaching

WISCONSIN: Unqualified for lack of technical course hours and specified courses in education

WYOMING: Qualified

SUMMARY

Qualified -- 20 states
Unqualified -- 24 states
CURRICULUM SOURCE

Bradley Polytechnic
Peoria, Illinois
FINDINGS
for the
STATE OF INDIANA *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Qualified for the Special Certificate valid to teach industrial arts in grades 1-12 inclusive

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain specified technical courses and academic subject hours

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon; lack adequate courses for specialization

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Qualified for the Graduate Temporary Certificate to teach any subject (including the special subject of industrial arts) in any school in Colorado

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts, requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical courses

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid

* Includes holders of certificates valid for teaching industrial arts in Indiana and based on graduation from the industrial arts curriculum at the Indiana State Teachers' College, Terre Haute, Indiana.
for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts, providing the above stated residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject preparation (industrial arts)

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient technical credits

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high school and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack certain specified technical subjects

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education and specified subjects in technique
MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution possible for one education subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one specified education subject

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodworking and drawing and 5 semester hour subjects in the first-class high schools; lacking in certain specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts prepared out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the state

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State Qualified for the Special Certificate valid for teaching only the
subject named thereon

OHIO: Qualified (Provisionally) for the Industrial Arts Certificate requiring an industrial arts major providing a substitution can be made for one specified education course

Qualified (Provisionally) for the Industrial Arts Certificate requiring an industrial arts minor with above stated provision

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and valid for special subjects only; lack specified technical, professional industrial arts and education subjects

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts; lack sufficient hours in certain specified subjects in education and technique

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and Oregon School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th; lack 15 term hours of graduate work and courses in Oregon History and School Law

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient subject-hour concentration of technical courses

Unqualified for the Standard Temporary Certificate valid for teaching those industrial arts subjects written thereon; lack sufficient subject-hour concentration of technical courses

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hour equivalent) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State
TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements

VERMONT: Qualified for the General High School Teaching Certificate -- at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack specified academic and industrial education courses as well as sufficient technical hours

WISCONSIN: Unqualified for lack of sufficient technical, academic and education credit hours

WYOMING: Qualified

SUMMARY

Qualified -- 28 states
Unqualified -- 16 states

CURRICULUM SOURCE

Indiana State Teachers' College
Terre Haute, Indiana
FINDINGS
for the
STATE OF IOWA *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Qualified (Provisionally) for the Special Certificate entitling the holder to teach industrial arts in any grade from 1-12 providing substitution possible for one specified education course

ARKANSAS: Qualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon; lack too many specified technical courses

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours directed teaching

Unqualified for the Special Subject Certificate valid for teaching in both the high school and elementary grades the subject of "Fine and Industrial Arts" for the above stated reason

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for

* Includes holders of certificates valid for teaching industrial arts in Iowa and based on graduation from the industrial arts curricula at the Iowa State College, Ames, and the Cedar Falls State Teachers' College, Cedar Falls, Iowa.
teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject, including industrial arts, in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above stated provision is satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior high and 7-8 grades providing substitution can be made for one education course

Qualified for the Special License valid in the high and elementary schools for teaching industrial arts

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate valid for teaching industrial arts in both the high schools and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Qualified for the Special Certificate to teach industrial arts

MASSACHUSETTS: Unqualified for teaching industrial arts in the high
schools for lack of sufficient credits in education and academic subjects and directed teaching and certain specified courses

MICHIGAN: **Qualified ( Provisionally)** for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution can be made for one education course

MINNESOTA: **Qualified** for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: **Qualified ( Provisionally)** for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork and drawing and other 5 semester hour subjects in the first-class high schools providing substitution can be made for one education course

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: **Qualified** for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: **Qualified** for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: **Unqualified** -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: **Qualified ( Provisionally)** for the Special Certificate to teach industrial arts in any grade providing requirements of hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: **Qualified** for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: **Qualified** for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate valid for teaching in any of the public schools in the State
Qualified for the Special Certificate valid for teaching only the subject endorsed thereon.

OHIO: Qualified for the Industrial Arts Certificate requiring a major in industrial arts of 40 semester hours.

Qualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject.

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and valid for special subjects only, for lack of hours in a specified subject.

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack sufficient hours directed teaching and credits in certain academic subject.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 term hours of graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (the special subject of industrial arts included) in the high schools and in junior high schools that include one or more grades above the 8th; lack 15 term hours of graduate work and courses in Oregon History and School Law.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack adequate technical subject-hour concentration and credits in directed teaching.

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above stated reasons.

RHODE ISLAND: Unqualified because of 400 clock hours (22½ semester hours) practice teaching residence requirement.

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations.

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in the high schools.

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State.
TEXAS: **Qualified** for the Special 3 Year Certificate to teach industrial arts

**Qualified** for the Special 4 Year Certificate to teach industrial arts

**Qualified** for the Special Permanent Certificate to teach industrial arts

UTAH: **Unqualified** for the Class "A" 3 Year Certification; lack technical subject hours and specified subjects in industrial education and drawing

VERMONT: **Qualified** -- at present Vermont has no industrial arts teacher certification requirements other than the completion of a four-year college course which shall include 12 semester hours professional education -- the General High School Teaching Certificate is used

VIRGINIA: **Qualified** to give required degree preparation including 12 semester hours industrial arts

WASHINGTON: **Unqualified** for lack of 45 quarter hours graduate work

WEST VIRGINIA: **Unqualified** for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack hours in directed teaching and specified subjects in industrial education and social studies

WISCONSIN: **Unqualified** -- lack specified education and industrial education subjects and hours in social studies

WYOMING: **Qualified**

**SUMMARY**

Qualified -- 31 states

Unqualified -- 13 states

**CURRICULA SOURCES**

Iowa State College
Ames, Iowa

Cedar Falls State Teachers' College
Cedar Falls, Iowa
**FINDINGS**

for the

**STATE OF KANSAS**

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**ALABAMA:** Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours to meet academic requirements.

**ARIZONA:** Unqualified for the Special Certificate entitled the holder to teach industrial arts in grades 1-12 inclusive; lack specified subject courses in education.

**ARKANSAS:** Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain specified subjects in technical, education and academic fields.

**CALIFORNIA:** Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; lack certain required technical subjects.

**COLORADO:** Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack hours in a certain foundational course.

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack specified education subjects and hours in a certain foundational course.

**CONNECTICUT:** Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of the time being devoted to that subject.

Qualified (Provisionally) for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time providing substitution can be made for one education course.

**DELAWARE:** Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical and academic subject hours.

Unqualified for the Special Subject Certificate valid for teaching.

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* Includes holders of certificates valid for teaching industrial arts in Kansas and based on graduation from the industrial arts curriculum at the Kansas State Teachers' College, Pittsburg, Kansas.
in both the high and elementary grades the subject of "Fine and Industrial Arts" for the above reasons

FLORIDA: **Qualified** for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

**Qualified** for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: **Qualified (Provisionally)** for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

**Qualified (Provisionally)** for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: **Qualified** for the Limited State Special Certificate to teach industrial arts

INDIANA: **Unqualified** for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack certain specified education subjects

**Unqualified** for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical hours

IOWA: **Qualified** for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject of preparation (industrial arts)

**Qualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high schools

KENTUCKY: **Unqualified** for permission to teach industrial arts as a major or minor subject; elective hours need direction to meet minor field requirement

LOUISIANA: **Qualified** to teach industrial arts in high schools

MAINE: **Qualified** for the Special Provisional Certificate valid for teaching industrial arts in both the high schools and elementary grades
Qualified for the First Provisional Professional Certificate, the regular secondary certificate

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack specified education and technical courses

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in directed teaching, academic and education subjects, and specified subject shortages

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be made for one education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork and drawing and other 5 semester hour subjects in the first-class high schools; lack too many hours in academic subjects and certain specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from Industrial Arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied and a substitution can be made for one specified education course
NEW YORK: **Qualified** for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: **Unqualified** for the High School Teachers' Certificate to teach industrial arts for lack of sufficient subject-hour concentration to meet high minor teaching field requirements

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: **Unqualified** for the Industrial Arts Certificate requiring major preparation in that subject; lack sufficient technical hours and specified education courses

**Unqualified** for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject; lack specified education and technical courses

OKLAHOMA: **Unqualified** for the One Year Certificate, based on two years of training and valid for special subjects only; lack too many specified subject requirements in education and technical fields

**Unqualified** for the Life Certificate based on four years of training and for special subjects only in industrial arts for above stated reasons

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 term hours graduate work and courses in Oregon History and School Law

**Unqualified** for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th; lack 15 term hours graduate work and courses in Oregon History and School Law

PENNSYLVANIA: **Unqualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours to meet high subject-hour concentration requirement

**Unqualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above stated reason

RHODE ISLAND: **Unqualified** because of 400 clock hour (22½ semester hours) practice teaching residence requirement
SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in the high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts
Qualified for the Special 4 Year Certificate to teach industrial arts
Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical, education, industrial education and academic subject hours

VERMONT: Qualified for the General High School Teaching Certificate — at present Vermont has no industrial arts teacher certifications except the completion of a four-year college course which shall include 12 semester hours of education

VIRGINIA: Qualified — have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; deficient in every field except education

WISCONSIN: Unqualified — lack subject hours in one field and specified education courses

WYOMING: Qualified

SUMMARY

Qualified — 21 states
Unqualified — 23 states

CURRICULUM SOURCE

Kansas State Teachers' College, Pittsburg, Kansas
FINDINGS
for the
STATE OF KENTUCKY *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in education

ARIZONA: Unqualified for the Special Certificate valid for teaching industrial arts in grades 1-12 inclusive; directed registration necessary to secure required technical hours

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack specified courses in education and technical fields

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; lack specified technical preparation

COLORADO: Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in the State; lack specified education courses and hours

Qualified for the Special Temporary Certificate valid for teaching only industrial arts

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate valid for teaching industrial arts and requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical preparation unless registration is directed

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient technical preparation as above

* Includes holders of certificates valid for teaching industrial arts in Kentucky and based on graduation from the industrial arts curricula of the Western Kentucky State Teachers' College, Bowling Green, and the University of Kentucky, Lexington, Kentucky.
FLORIDA: Qualified (Provisionally) for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon providing substitution can be made for one education course

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subjects endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 8-12 inclusive providing the 12 semester hour or 6 week residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitutions can be made for two education courses

Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical hours

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject preparation (industrial arts)

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school; lack sufficient hours technical preparation and specified courses in education

LOUISIANA: Qualified to teach industrial arts in high schools

MAINE: Qualified for the Special Provisional Certificate valid for teaching industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the
regular secondary credential

MARYLAND: **Unqualified** for the Special Certificate to teach industrial arts; lack specific technical and education courses

MASSACHUSETTS: **Unqualified** for teaching industrial arts in the high schools; lack sufficient hours in education and directed teaching

MICHIGAN: **Unqualified** for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack too many specified education subjects

MINNESOTA: **Unqualified** for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack specified subjects in technical field

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: **Unqualified** for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: **Qualified** for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: **Qualified** for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: **Unqualified** -- requirements include graduation from Industrial Arts curriculum in high and from Trades and Industries curriculum in college

NEW JERSEY: **Unqualified** -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: **Qualified** (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: **Unqualified** for the Provisional Certificate valid for teaching industrial arts; lack sufficient technical preparation

NORTH CAROLINA: **Unqualified** for the High School Teachers' Certificate to teach industrial arts; lack sufficient technical preparation
NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate valid for teaching in any of the public schools of the State
Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: Unqualified for the Industrial Arts Certificate requiring a major or 40 semester hours in that subject; lack sufficient technical preparation and specified education subjects
Unqualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject; lack specified hours in education subjects and certain technical courses

OKLAHOMA: Unqualified for the One-Year Certificate, based on two years of training and valid for special subjects only, for lack of education, technical, and academic subject hours
Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts, for above stated reasons

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and School Law
Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th; for above stated reasons

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; not sufficient technical hours prescribed and not sufficient hour concentration to meet requirement for each subject taught
Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above stated reasons

RHODE ISLAND: Unqualified because of 400 clock hour (22\(1/2\) semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school
TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State.

TEXAS: Qualified for the Special 3 Year Certificate for teaching industrial arts.
Qualified for the Special 4 Year Certificate to teach industrial arts.
Qualified for the Special Permanent Certificate to teach industrial arts.

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education subject hours.

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and degree.

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts.

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work.

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack sufficient subject hours in every field.

WISCONSIN: Unqualified for lack of sufficient hours in social studies, education and technical field.

WYOMING: Qualified.

SUMMARY

Qualified -- 20 states
Unqualified -- 24 states

CURRICULA SOURCES

Western Kentucky State Teachers' College
Bowling Green, Kentucky

University of Kentucky
Lexington, Kentucky
FINDINGS
for the
STATE OF LOUISIANA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in English and education

ARIZONA: Unqualified for the Special Certificate valid for teaching industrial arts in grades 1-12 inclusive; directed registration necessary to secure additional subject hours in education and practice teaching

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack specified education and professional industrial education courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack too many specified subjects in technical field

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado; lack hours in education

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Unqualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time; lack specified education subject

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours directed teaching

Unqualified for the Special Subject Certificate valid for teaching in

* Includes holders of certificates valid for teaching industrial arts in Louisiana and based on graduation from the industrial arts curriculum at the University of Louisiana, University, Louisiana.
both the high and elementary grades the subject of "Fine and Industrial Arts" for the above reason

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon; lack hours in psychology and professional

GEORGIA: No certification data received and no industrial arts preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied.

Qualified (Provisionally) for the State Specialists' Certificate valid only for teach industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical subject hours and specified courses in education

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack specified education courses

IOWA: Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject of preparation (industrial arts); lack certain specified education subjects

Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school for above reason

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack hours in specified education courses

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high schools and elementary grades
Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack one hour in directed teaching and certain specified education and technical courses

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in directed teaching, education, and technical fields

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack one semester hour practice teaching, specified courses in education and more hours in education

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack specified courses in education

MISSISSIPPI: Certification requirements reported as being in process of change — no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana — a three-year trade experience requirement would bar many teachers of industrial arts

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Unqualified for the Special Certificate to teach industrial arts in any grade; lack sufficient hours in education and certain specified education courses

NEW YORK: Qualified for the Provisional Certificate valid for teach-
Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th; lack 15 term hours of graduate work and courses in Oregon History and School Law.

Pennsylvania: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours directed teaching and adequate subject-hour concentration.

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reasons.

Rhode Island: Unqualified because of 400 clock hour (22 1/2 semester hours) practice teaching residence requirement.
SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack specified courses in technical and industrial education fields

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements other than degree preparation that includes 12 semester hours education

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack one semester hour directed teaching, specified courses in industrial education and hours in English, social studies and education

WISCONSIN: Unqualified -- lack sufficient technical hours, psychology and social studies

WYOMING: Qualified

SUMMARY

Qualified -- 17 states
Unqualified -- 27 states
CURRICULA SOURCES

Louisiana State University
University, Louisiana

Tulane University
New Orleans, Louisiana
FINDINGS
for the
STATE OF MAINE

"We are holding your request for a circular of
information until our new supply comes in and
is ready for distribution. At present our sup-
ply is exhausted. I am sorry we have not been
able to comply with your request before."

Mr. E. E. Roderick, Deputy Commissioner of Education, Department
of Education, Augusta, recommended the Gorham State Normal School,
Gorham, as the one state teacher-training institution in Maine offer-
ing training in industrial arts. Unable to obtain its catalog at the
Oregon State Library or the Registrar's Office, a request for a copy
of their catalog was sent directly to the Normal School. The quota-
tion above from a letter sent by the Registrar of the Gorham State
Normal School, is an explanation of why the publication has not been
received and also why sufficient data is not at hand to complete the
"Findings" for Maine.
FINDINGS
for the
STATE OF MARYLAND*

ALABAMA: Qualified (Provisionally) for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools providing substitution can be made for one education course.

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; deficient one hour in directed teaching and lack one specified education course.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack professional industrial arts, education, and technical courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon; lack too many specified manipulative courses.

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack specified education courses.

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado; lack specified education courses.

CONNECTICUT: Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject; lack specified education course and sufficient concentration of subject hours.

Qualified (Provisionally) for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time providing substitution can be made for one education course.

DELWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours directed teaching.

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient hours directed teaching.

* Includes holders of certificates valid for teaching industrial arts in Maryland and based on graduation from the industrial arts curriculum at the University of Maryland, College Park, Maryland.
FLORIDA: Qualified (Provisionally) for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon providing a substitution can be made for one education subject

Qualified (Provisionally) for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon with the above provision

GEORGIA: No certification data received and no industrial arts preparation, as such, given for teachers

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical preparation

Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitution can be made for one course in education

IOWA: Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject preparation (industrial arts) providing substitution can be made for one specified education course

Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high schools; lack sufficient hours in technical and education courses

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack specified courses in education and hours in technical preparation

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools
MAINE: Qualified for the Special Provisional Certificate valid for teaching industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary certificate

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in directed teaching and specified education and manipulative courses

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution possible for two education courses

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack specified technical subjects

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of sufficient woodworking courses and sufficient hour concentration

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack subject concentration sufficient to meet minor teaching field requirement

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hours residence and "Problems in Education in New Mexico" requirements are satisfied
NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack sufficient hour concentration in a second subject to meet minor teaching field requirements

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring a major in that subject; lack sufficient hours specialization and desired type of courses

Unqualified for the Industrial Arts Certificate requiring a minor in that subject because of above reasons

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and for special subjects only; lack specified courses in education and technical fields

Unqualified for the Life Certificate based on four years of training and valid for special subjects only; lack specified technical and education courses and credits in directed teaching

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (the preparation major of industrial arts included) in the high schools and in junior high schools that include one or more grades above the 8th for the above reasons

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical subject-hour concentration

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical subject-hour concentration

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement
SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for the teaching and supervising of industrial arts in the secondary and elementary grades; lack hours in the academic, technical and education fields

WISCONSIN: Unqualified -- lack academic and education hours and specified subjects

WYOMING: Qualified

SUMMARY

Qualified -- 22 states
Unqualified -- 22 states
CURRICULUM SOURCE

University of Maryland
College Park, Maryland
FINDINGS
for the
STATE OF MASSACHUSETTS *

ALABAMA: **Unqualified** for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient academic credits and a specified course in education

ARIZONA: **Qualified** for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive

ARKANSAS: **Qualified** for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State

CALIFORNIA: **Unqualified** for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon; lack certain specified technical subject preparation

COLORADO: **Qualified** for the Special Temporary Certificate valid for teaching only industrial arts

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado

CONNECTICUT: **Qualified** for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate valid for teaching industrial arts and requiring less than half time

DELAWARE: **Qualified** for the Special Branches Certificate valid for teaching manual or industrial education in all high schools

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"

FLORIDA: **Qualified** for the 2 Year Graduate State Certificate valid

* Includes holders of certificates valid for teaching industrial arts in Massachusetts and based on graduation from the industrial arts curriculum at the State Teachers' College, Fitchburg, Massachusetts.*
for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts preparation as such offered for teachers

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades

Qualified for the Special License valid in high and elementary schools for the teaching of industrial arts

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the major subject preparation (industrial)

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on certificate in the grades and high school

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one education course

KENTUCKY: Unqualified for permission to teach industrial arts as a major or minor subject; lack sufficient hour concentration to meet minor teaching field requirement

LOUISIANA: Qualified to teach industrial arts in high school

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential
MARYLAND: Qualified for the Special Certificate to teach industrial arts

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack sufficient hour concentration in additional field for teaching minor and also one specified education subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one specified education subject

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Qualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools providing substitutions can be made for two specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack sufficient hour concentration in a second field for a teaching minor

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the requirements of hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack sufficient hour concentration to meet
minor teaching field requirement

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

**Qualified** for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: **Qualified** (Provisionally) for the Industrial Arts Certificate requiring industrial arts major of 40 semester hours providing substitutions can be made for two education courses

**Qualified** (Provisionally) for the Special Industrial Arts Certificate requiring an industrial arts minor of 16 semester hours providing substitutions can be made for two education courses

OKLAHOMA: **Unqualified** for the One Year Certificate based upon two years of training and valid for special subjects only; lack specified subject requirements

**Unqualified** for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack specified subject requirements

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours of graduate work and courses in Oregon History and School Law

**Unqualified** for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th; lack hours and courses as above

PENNSYLVANIA: **Qualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon

**Qualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon

RHODE ISLAND: **Unqualified** because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: **Qualified** to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: **Qualified** for the High School Special Certificate valid
for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond the completion of a four-year course which shall include 12 semester hours education

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate for teaching and supervising industrial arts in the secondary and elementary grades; lack specified courses in industrial education and academic subject hours

WISCONSIN: Unqualified -- lack certain education courses and hours in social studies

WYOMING: Qualified

SUMMARY

Qualified -- 29 states
Unqualified -- 15 states

CURRICULUM SOURCE

State Teachers' College
Fitchburg, Massachusetts
FINDINGS for the STATE OF MICHIGAN *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Qualified (Provisionally) for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive providing substitutions can be made for two education courses

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack specified education and technical courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; specified courses lacking

COLORADO: Qualified (Provisionally) for the Special Temporary Certificate valid for teaching only industrial arts providing substitution can be made for course in Vocational Guidance

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado providing substitution can be made for one course in education

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical courses

Qualified for the Special Subject Certificate valid for teaching in the high and elementary schools the subject of "Fine and Industrial Arts"

* Includes holders of certificates valid for teaching industrial arts in Michigan, and graduates of the industrial arts curricula at the Michigan State Normal College, Ypsilanti, and Wayne University, Detroit, Michigan.
FLORIDA: **Unqualified** for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon; lack sufficient hour concentration

**Unqualified** for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon; lack sufficient subject hour concentration

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: **Qualified (Provisionally)** for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

**Qualified (Provisionally)** for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: **Qualified** for the Limited State Special Certificate to teach industrial arts

INDIANA: **Unqualified** for the Special License valid in high and elementary schools for teaching industrial arts; lack sufficient hours specialization

**Qualified (Provisionally)** for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitution can be made for one education course

IOWA: **Qualified** for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts)

**Qualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated in the certificate in the grades and high school

KANSAS: **Qualified (Provisionally)** for the Special Certificate to teach industrial arts in any school in the State providing majored in industrial arts at Ypsilanti State Normal School and substitution can be made for one education course

KENTUCKY: **Qualified** for permission to teach industrial arts as a major or minor subject

LOUISIANA: **Qualified** to teach industrial arts in high schools of the State
MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Qualified (Provisionally) for the Special Certificate to teach industrial arts providing substitution can be made for one education course

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack of sufficient hours in education or technical fields (depending upon school attended) and the specified technical course -- printing

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack preparation in specified technical course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching in the first-class high schools; lack sufficient hour concentration

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching
industrial arts

NORTH CAROLINA: Qualified (Provisionally) for the High School Teachers' Certificate to teach industrial arts providing curriculum completed at Ypsilanti State Normal College.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State.

Qualified for the Special Certificate valid for teaching only the subject named on the certificate.

OHIO: Qualified for the Industrial Arts Certificate requiring a 40 semester hour major in that subject.

Qualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject.

OKLAHOMA: Unqualified for the One-Year Certificate, based on two years of training and valid for special subjects only, for lack of specified education and technical subject requirements.

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack subjects as above.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (industrial arts included) in the high schools and in junior high schools including one or more grades above the 6th; lack above hours and courses.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hour concentration to meet 12 semester hour requirement each subject taught.

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reason.

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement.

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations.
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school.

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State.

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts.
Qualified for the Special 4 Year Certificate to teach industrial arts.
Qualified for the Special Permanent Certificate to teach industrial arts.

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements.

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree.

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts.

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work.

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack specified industrial education courses and specified academic subject courses.

WISCONSIN: Unqualified -- lack sufficient hours technical preparation, specified education subject courses and hours in social studies.

WYOMING: Qualified

SUMMARY

Qualified -- 28 states
Unqualified -- 16 states

CURRICULA SOURCES

Michigan State Normal College
Ypsilanti, Michigan

Wayne University
Detroit, Michigan
FINDINGS
for the
STATE OF MINNESOTA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours academic preparation.

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack one semester hour directed teaching and specified course in education.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack hours in academic field and specified technical courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack specified technical courses.

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack hours in a specified academic subject.

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack sufficient hours in education and a specified education course.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject.

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours practice teaching.

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient hours directed teaching.

* Includes holders of certificates valid for teaching industrial arts in Minnesota, and based on graduation from the industrial arts curriculum at the University of Minnesota, Minneapolis, Minnesota.
FLORIDA: **Qualified** for the 2 Year Graduate State Certificate valid for teaching the industrial arts subject endorsed thereon

**Qualified** for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: **Qualified** (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

**Qualified** (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: **Qualified** for the Limited State Special Certificate to teach industrial arts

INDIANA: **Qualified** (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitution can be made for one education course

**Qualified** (Provisionally) for the Special License valid in high and elementary schools for the teaching of industrial arts providing substitution can be made as above

IOWA: **Qualified** for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts)

**Qualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school

KANSAS: **Qualified** (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: **Qualified** for permission to teach industrial arts as a major or minor subject

LOUISIANA: **Qualified** to teach industrial arts in high schools in the State

MAINE: **Qualified** for the Special Provisional Certificate valid for
teaching industrial arts in both the high and elementary grades

**Qualified** for the First Provisional Professional Certificate, the regular secondary credential

**MARYLAND:** **Unqualified** for the Special Certificate to teach industrial arts; lack one hour (semester) directed teaching and a specified education course

**Massachusetts:** **Unqualified** for teaching industrial arts in the high schools; lack sufficient hours directed teaching

**Michigan:** **Unqualified** for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack hours in directed teaching and a specified education course

**Mississippi:** Certification requirements reported as being in process of change -- no data available to date

**Missouri:** **Qualified** for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in first-class high schools

**Montana:** No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

**Mississippi:** Certification requirements reported as being in process of change -- no data available to date

**Nebraska:** **Qualified** for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

**Nevada:** **Qualified** for the Regular High School Certificate to teach in any high school in the State

**New Hampshire:** **Unqualified** -- requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

**New Jersey:** **Unqualified** -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

**New Mexico:** **Qualified** (Provisionally) for the Special Certificate to teach industrial arts in any grade providing requirements of 6 semester hours in residence and "Problems in Education in New Mexico" are satisfied

**New York:** **Qualified** for the Provisional Certificate valid for teaching industrial arts

**North Carolina:** **Unqualified** for the High School Teachers' Certifi-
cate to teach industrial arts; lack specified education subject and sufficient subject-hour concentration for minor teaching field

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate (industrial arts)

OHIO: Unqualified for the Industrial Arts Certificate requiring a major of 40 semester hours in that subject; lack specified education courses

Unqualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject; lack specified education courses

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; lack specified subject requirements in education and technique

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack sufficient hours in directed teaching and specified subject requirements

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 term hours of graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools including one or more grades above the 8th; lack 15 term hours of graduate work and courses in Oregon History and School Law

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects named thereon; lack 2 semester hours directed teaching and sufficient concentration of subject hours to meet 12 semester hour requirement

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reasons

RHODE ISLAND: Unqualified because of 400 clock hour (22 1/2 semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and education subject hours

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack semester hour directed teaching, specified technical subject courses and subject hours in academic and technical fields

WISCONSIN: Unqualified -- lack sufficient hours technical subjects and specified education courses

WYOMING: Qualified

SUMMARY

Qualified -- 23 states
Unqualified -- 21 states

CURRICULUM SOURCE

University of Minnesota
Minneapolis, Minnesota
FINDINGS
for the
STATE OF MISSISSIPPI *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in academic subjects

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack semester hours practice teaching and specified courses in education

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack hours and specified courses in education and technical education fields

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack semester hour practice teaching and specified technical courses

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack semester hour practice teaching

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours directed teaching and specified education subject

Unqualified for the Special Subject Certificate valid for teaching

* Includes holders of certificates valid for teaching industrial arts in Mississippi, and based on graduation from the industrial arts curriculum at the State College of Mississippi, State College, Mississippi.
in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack hours in directed teaching and specified education subject

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour or 6 week residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified for the Special License valid in high and elementary schools for teaching industrial arts

Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitution can be made for one education course

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject of preparation (industrial arts)

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school

KANSAS: Qualified for the Special Certificate to teach industrial arts in any school in the State

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools in the State

MAINE: Qualified for the Special Provisional Certificate the holders
of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack hours in practice teaching and specified courses in education and technical fields

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours directed teaching, manipulative courses and education

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack hours in directed teaching and sufficient concentration for minor teaching field

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior, senior, four-year, six-year high schools; lack specified technical subject preparation

MISSOURI: Qualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack semester hour directed teaching

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Unqualified for the Special Certificate to teach industrial arts in any grade; lack semester hour practice teaching and a specified education subject

NEW YORK: Unqualified for the Provisional Certificate valid for teach-
ing industrial arts; lack semester hour directed teaching

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: Qualified for the Industrial Arts Certificate requiring a major of 40 semester hours in that subject

Qualified for the Industrial Arts Certificate requiring a minor of 16 semester hours in that subject

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and for special subjects only; lack hours in directed teaching

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack specified subject requirements in education and technical fields and hours in directed teaching

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 term hours of graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools including one or more grades above the 8th; lack 15 term hours of graduate work and courses in Oregon History and School Law

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack hours in directed teaching and subject hour concentration

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for above reasons

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher
certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical, industrial and academic hours

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack hours in directed teaching, academic and education fields and specified subject courses in industrial education

WISCONSIN: Unqualified -- lack hour in practice teaching and other specified education subject courses

WYOMING: Qualified

SUMMARY

Qualified -- 22 states
Unqualified -- 22 states
CURRICULUM SOURCE

State College of Mississippi
State College, Mississippi
FINDINGS
for the
STATE OF MISSOURI *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack academic and education credits

ARIZONA: Qualified (Provisionally) for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive providing substitution can be made for two education subjects

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts subjects in any senior or junior high school in the State; lack hours in academic field and specified subject courses in education and technique

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential; lack certain specified technical courses

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack hours in an academic subject

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours in specialization

Unqualified for the Special Subject Certificate valid for teaching both the high and elementary grades the subject of "Fine and Industrial Arts"; lack sufficient hours in specified education subjects

* Includes holders of certificates valid for teaching industrial arts in Missouri, and based on graduation from the industrial arts curricula at the Northeast Missouri State Teachers' College, Kirksville, and the University of Missouri, Columbia, Missouri.
FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour or 6 week residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack specified education courses

Unqualified for the Special License valid in high and elementary schools for teaching industrial arts; for above reason

IOWA: Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts) providing substitution can be made for one education course

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution possible for one specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools in the State

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades
Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Qualified (Provisionally) for the Special Certificate to teach industrial arts providing substitution can be made for one education course

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours directed teaching and technical and specified subjects in academic and education fields

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing a substitution can be made for one education course

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack specified technical subject preparation and one course in education

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any secondary school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts
NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: Qualified for the Industrial Arts Certificate requiring a major in that subject providing a substitution can be made for one education subject

Qualified for the Industrial Arts Certificate requiring a minor in that subject providing a substitution can be made for one education subject

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and for special subjects only; lack specified subject requirements in education and technical fields and hours in the academic field

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack specified subject requirements in education and technical fields

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 term hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (industrial arts included) in the high schools and in junior high schools including one or more grades above the 8th; lack above hours and courses

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack proper subject hour concentration to meet 12 semester hour requirement for each subject taught

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient subject hour concentration

RHODE ISLAND: Unqualified because of 400 clock hour (22 1/2 semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts
Qualified for the Special 4 Year Certificate to teach industrial arts
Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subjects

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate to teach and supervise industrial arts in the secondary and elementary grades; lack hours in academic subjects and certain specified technical subjects

WISCONSIN: Unqualified -- lack hours in technical and academic fields as well as specified subjects in education

WYOMING: Qualified

SUMMARY

Qualified -- 27 states
Unqualified -- 17 states

CURRICULA SOURCES

Northeast Missouri State Teachers' College, Kirksville, Missouri
University of Missouri, Columbia, Missouri
FINDINGS
for the
STATE OF MONTANA

According to information received from Miss Ruth Reardon, Superintendent of Public Instruction, Helena, the Montana institutions of higher learning do not prepare teachers for the field of industrial arts.

Nor do they have specific certification requirements.

"...the superintendent of public instruction...may grant.....a special certificate.....in manual training.....to any teacher who presents satisfactory evidence of special proficiency for teaching that subject" — a quotation from a carbon copy memorandum sent out by Miss Reardon summarizing Montana certification requirements. When questioned as to the basis for judging "satisfactory evidence of special proficiency", the reply was "reports of State Supervisor, upon his inspections."

The only definite certification requirement reported was "three years of trade experience." This would bar many out-of-state prepared industrial arts teachers.
FINDINGS
for the
STATE OF NEBRASKA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack hours in academic and minor teaching fields and also specified subject courses in education.

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack hours in practice teaching and specified education subjects.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack specified subject courses in education, industrial education, and academic fields.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack specified technical courses and sufficient hours in practice teaching.

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack hours in practice teaching and specified education, academic and professional industrial education courses.

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado for the above reasons.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject.

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack hours in specialization and practice teaching.

* Includes holders of certificates valid for teaching industrial arts in Nebraska, and based on graduation from the industrial arts curricula at the University of Nebraska, Lincoln, and Chadron State Teachers' College, Chadron, Nebraska.
Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; lack hours in practice teaching.

**FLORIDA:** Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient specified subject hours in each subject taught.

Unqualified for the 4 Year Graduate State Certificate to teach the individual industrial arts subject endorsed thereon for the above reason.

**GEORGIA:** No certification data received and no industrial arts teacher preparation given as such.

**IDAHO:** Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied.

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied.

**ILLINOIS:** Qualified for the Limited State Special Certificate to teach industrial arts.

**INDIANA:** Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack specified courses in education.

Unqualified for the Special License valid in high and elementary schools for teaching industrial arts; lack sufficient hours specialization and specified courses in education.

**IOWA:** Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching the 7-8 grades and in high school the major subject (industrial arts) providing substitution can be made for one education subject.

Qualified (Provisionally) for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on certificate in the grades and high school providing above substitution can be made.

**KANSAS:** Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours specialization and certain specified education courses.

**KENTUCKY:** Qualified for permission to teach industrial arts as a ma-
jor or minor subject

LOUISIANA: **Qualified** to teach industrial arts in high school of the State

MAINE: **Qualified** for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

**Qualified** for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: **Unqualified** for the Special Certificate to teach industrial arts; lack hours in practice teaching and specified courses in technical and education fields

MASSACHUSETTS: **Unqualified** for teaching industrial arts in the high schools for lack of sufficient hours in practice teaching, education and technical fields -- also academic field

MICHIGAN: **Unqualified** for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack sufficient hours in practice teaching and specified courses in education

MINNESOTA: **Qualified** for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: **Unqualified** for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts

NEVADA: **Unqualified** for the Regular High School Certificate to teach in any high school in the State for lack of sufficient concentration of hours to meet minor teaching requirement without directed registration

NEW HAMPSHIRE: **Unqualified** -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: **Unqualified** -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers
NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade, providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied.

NEW YORK: Unqualified for the Provisional Certificate valid for teaching industrial arts; lack practice teaching hours unless registration directed.

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack specified education subjects and sufficient concentration of subject hours to meet minor teaching field requirements.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State. Qualified for the Special Certificate valid for teaching only the subject named on the certificate.

OHIO: Unqualified for the Industrial Arts Certificate requiring a major of 40 semester hours in that subject; lack specified education and technical courses. Unqualified for the Industrial Arts Certificate requiring a minor of 16 semester hours in that subject because of above reason.

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and for special subjects only; lack sufficient hours practice teaching without directed registration and specified courses in education, academic and technical fields. Unqualified for the Life Certificate based on four years of training and for special subjects only because of the above reasons.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law. Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the senior and junior high schools that include one or more grades above the 8th for the above reasons.

PENNSYLVANIA: Unqualified for the Provisional College Certificate with specified industrial arts subjects written thereon; lack sufficient technical subject concentration to meet 12 semester hour requirement for each subject taught.
Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reason

RHODE ISLAND: Unqualified because of 400 clock hour (22\(\frac{1}{2}\) semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subjects

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack hours in directed teaching, academic, technical and industrial education fields

WISCONSIN: Unqualified -- lack hours in shop, directed teaching unless registration directed and specified courses in education

WYOMING: Qualified
SUMMARY

Qualified -- 17 states
Unqualified -- 27 states

CURRICULA SOURCES

University of Nebraska
Lincoln, Nebraska

Chadron State Teachers' College
Chadron, Nebraska
FINDINGS
for the
STATE OF NEVADA

Like Vermont, the State of Nevada must secure its industrial arts teachers from out-of-state because it offers no teacher preparation in that subject. Mrs. Pearl M. Elstner, Certification Clerk of the Nevada Department of Education, writes:

"Teachers of industrial arts in the secondary schools in this State are required to hold either regular high school or special industrial arts certificates. However, for the past several years all teachers of industrial arts have qualified and been granted high school certificates."

"The University of Nevada, Reno, Nevada, is the only institution in this State offering teacher-training courses, but this institution does not offer any specific work in industrial arts."

However, inspection of the University of Nevada 1938-39 catalog indicates that a few courses termed "Mechanic Arts" are offered in sufficient amount to meet industrial arts hour specialization in the following states:

NEW MEXICO: Qualified for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" are satisfied

NORTH DAKOTA: Qualified for the 1st Grade Professional and Special Certificates, the latter for teaching only industrial arts

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of that State
VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree.

VIRGINIA: Qualified because certification required is degree preparation that includes 12 semester hours of industrial arts training.

WYOMING: Qualified

The certification requirements of none of the above states specify definite subjects. Since only the lump sum of hours is given, quantity rather than quality or content is the only requirement.
FINDINGS
for the
STATE OF NEW HAMPSHIRE *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hour concentration for minor teaching field requirement and specified education and academic courses.

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack sufficient hours technical courses and specified education courses.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain specified professional and technical courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential; lack special industrial arts curriculum and specified technical courses.

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack specified subject courses.

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado; lack specified education subjects.

CONNECTICUT: Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject; lack sufficient technical subject hour concentration.

Unqualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time for above reason.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical courses.

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and In-

* Includes holders of certificates valid for teaching industrial arts in New Hampshire and based on graduation from the industrial arts curriculum at the University of New Hampshire, Durham, New Hampshire.
Industrial Arts" for above reason

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon for lack of specialization and adequate concentration of subject hours in technical field

Unqualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon for the same reasons

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades

Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient specialized preparation

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (Industrial Arts)

Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school; lack sufficient specialization

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient specialized preparation and hours in education and academic fields

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools of State
MAINE: **Qualified** for the Special Provisional Certificate valid for teaching industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: **Unqualified** for the Special Certificate to teach industrial arts; lack adequate technical preparation and hours in required subjects

MASSACHUSETTS: **Unqualified** for teaching industrial arts in the high schools for lack of sufficient hours in education, practice teaching (unless directed registration given), academic and specified technical subjects

MICHIGAN: **Qualified** (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution can be made for one education course

MINNESOTA: **Unqualified** for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack hours in technical field and specified education subject

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: **Unqualified** for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools; lack hours in academic and education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many industrial arts teachers prepared out-of-state

NEBRASKA: **Qualified** for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: **Unqualified** for the Regular High School Certificate to teach in any high school in the State; lack technical hours and sufficient concentration of subject hours to meet minor teaching field requirement

NEW JERSEY: **Unqualified** -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: **Qualified** (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are
NEW YORK: Unqualified for the Provisional Certificate valid for teaching industrial arts; lack sufficient technical preparation.

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack sufficient technical preparation as well as concentration of hours adequate to meet minor field requirement.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State.

Qualified for the Special Certificate valid for teaching only the subject named on the certificate.

OHIO: Unqualified for the Industrial Arts Certificate requiring a major in that subject; lack technical courses.

Qualified for the Industrial Arts Certificate requiring a minor in that subject.

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and for special subjects only; lack technical and academic hours and specified courses.

Unqualified for the Life Certificate based on four years of training and for special subjects only; for above reasons.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the senior and junior high schools that include one or more grades above the 8th for the above reasons.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical preparation to permit adequate subject concentration.

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reason.

RHODE ISLAND: Unqualified because of 400 clock hour (22 1/2 semester...
hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack academic, technical and professional industrial education courses

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack sufficient preparation in every field except education

WISCONSIN: Unqualified -- lack technical, education and academic subjects

WYOMING: Qualified

SUMMARY

Qualified -- 19 states
Unqualified -- 25 states
CURRICULUM SOURCE

University of New Hampshire
Durham, New Hampshire
FINDINGS
for the
STATE OF NEW JERSEY *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack one specified education course and sufficient hour concentration in a second subject to meet minor teaching field requirement.

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12; lack specified education courses and sufficient hour concentration for minor teaching field.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school; lack specified education subjects, professional industrial education and technical courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential; lack several specified technical courses.


Qualified for the Special Certificate valid for teaching only industrial arts.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more time being devoted to that subject.

Qualified for the Limited Secondary Certificate and requiring less than half time.

DELAWARE: Qualified for the Special Branches Certificate valid for the teaching of manual or industrial education in all high schools.

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts."

* Includes holders of certificates valid for teaching industrial arts in New Jersey and based on graduation from the industrial arts curricula at the New Jersey State Teachers' Colleges in Newark and Trenton, New Jersey.
FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; believe lack sufficient technical subject concentration to meet requirement for subjects taught

Unqualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon for above reason

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists’ Certificate valid for teaching only industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in the high and elementary schools for teaching industrial arts; lack sufficient technical training and specified education courses

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack specified education courses

IOWA: Qualified (Provisionally) for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high schools providing substitution can be made for one education course

Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts) but with above provision

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient education specified courses

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified for teaching industrial arts in the high schools of the State
MAINE: **Qualified** for the Special Provisional Certificate valid for teaching the subject of industrial arts in both the high and elementary grades

**Qualified** for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: **Qualified (Provisionally)** for the Special Certificate to teach industrial arts providing course completed at Newark State Teachers' College to obtain electrical course and education psychology providing substitution can be made for two other education courses

MASSACHUSETTS: **Unqualified** for teaching industrial arts in the high schools; lack specified technical and education courses

MICHIGAN: **Unqualified** for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack specified education courses

MINNESOTA: **Qualified (Provisionally)** for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be made for two education courses

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: **Unqualified** for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools; lack specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many out-of-state teachers of industrial arts

NEBRASKA: **Qualified** for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: **Qualified (Provisionally)** for the Regular High School Certificate to teach in any high school in the State, providing directed registration can secure sufficient hours for a minor teaching field

NEW HAMPSHIRE: **Unqualified** -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW MEXICO: **Unqualified** for the Special Certificate to teach industrial arts in any grade; lack certain hours in education courses and
must satisfy the 6 semester hour residence and "Problems in New Mexico Education" requirements

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate valid for teaching industrial arts; lack sufficient hours to satisfy minor teaching field requirement

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring a 40 semester hour major in that subject; lack several specified education courses and hours in technical preparation

Unqualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject for above reasons

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; lack a number of specified education courses, hours in technical and academic preparation

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; deficiencies stated above

OREGON: Unqualified for the Special Certificate to teach the individual industrial arts subject or subjects named thereon; lack 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the high schools and junior high schools that include one or more grades above the 8th; lack above hours and courses

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hour concentration to satisfy requirement

Unqualified for the Standard Temporary Certificate valid for teaching only the subjects written thereon; lack sufficient hours as stated above

RHODE ISLAND: Unqualified because of the 400 clock hour (23\frac{1}{2} semester hours) residence practice teaching requirement
SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at this time.

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school.

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State.

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts.
Qualified for the Special 4 Year Certificate to teach industrial arts.
Qualified for the Special Permanent Certificate to teach industrial arts.

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specifications.

VERMONT: Qualified for the General High School Certificate -- at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree.

VIRGINIA: Qualified -- have degree preparation that includes 12 semester hours of industrial arts training.

WASHINGTON: Unqualified for lack of 45 quarter hours of graduate work.

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack hours in education, academic, professional industrial education, and technical courses.

WISCONSIN: Unqualified for lack of sufficient hours in education, technical and academic courses.

WYOMING: Qualified to teach industrial arts.

SUMMARY

Qualified -- 22 states
Unqualified -- 22 states
CURRICULA SOURCES

New Jersey State Teachers' College
Newark, New Jersey

New Jersey State Teachers' College
Trenton, New Jersey
FINDINGS
for the
STATE OF NEW MEXICO *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack sufficient specialization

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack specified subject requirements in technical and academic fields

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; lack specified technical courses

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack specified courses in academic and industrial education fields

Qualified (Provisionally) for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado providing substitutions can be made for two education courses

CONNECTICUT: Qualified for the Limited Secondary Certificate valid for teaching industrial arts and requiring less than half time

Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of the time being devoted to that subject; lack sufficient specialization and adequate subject hour concentration

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient specialization

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary schools the subject of "Fine and In-

* Includes holders of certificates valid for teaching industrial arts in New Mexico and based on graduation from the industrial arts curriculum at the New Mexico Normal University, Las Vegas, New Mexico.
Industrial Arts"; lack adequate technical hours

**FLORIDA:** Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient technical preparation and concentration of subject hours

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient preparation as above stated

**GEORGIA:** No certification data received and no industrial arts teacher preparation given as such

**IDAHO:** Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists’ Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

**ILLINOIS:** Qualified for the Limited State Special Certificate to teach industrial arts

**INDIANA:** Unqualified for the Special License valid in high and elementary schools for teaching industrial arts; lack sufficient specialization

Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitution can be made for two semester hours applied psychology

**IOWA:** Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject industrial arts

Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school; lack sufficient specialization

**KANSAS:** Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient technical preparation and a specified education subject

**KENTUCKY:** Qualified for permission to teach industrial arts as a major or minor subject
LOUISIANA: Qualified to teach industrial arts in high schools in the State

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary certificate

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack sufficient technical preparation and specified technical courses

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in education, technical and academic fields

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack hours and specified subject courses in education

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of academic hours and specified subjects in education

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many industrial arts teachers from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack technical hours for a major and hours for a minor teaching field

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement
bars many out-of-state prepared industrial arts teachers

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack sufficient technical hours, a specified education subject and sufficient concentration of subject hours to meet minor field requirement

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: Unqualified for the Industrial Arts Certificate requiring a major of 40 semester hours in that subject; lack sufficient preparation and specified subjects in education and technical fields

Unqualified for the Industrial Arts Certificate requiring a minor of 16 semester hours in that subject; lack specified subject in teaching field (industrial arts)

OKLAHOMA: Qualified (Provisionally) for the One-Year Certificate based on two years of training and for special subjects only providing substitution can be made for one semester hour technical course

Unqualified for the Life Certificate based on four years of training and for special subjects only; lack too many specified technical courses

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four Year High School Certificate valid for teaching any subject including industrial arts in the senior and junior high schools that include one or more grades above the 8th for the same reasons

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient preparation and technical subject hour preparation to meet 12 semester hour requirement for each subject taught

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reasons
RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the only standards for industrial arts teacher certification used at present -- committee now at work on specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for the teaching of that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified because lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid to teach and supervise industrial arts in the secondary and elementary grades; lack technical, academic and industrial education courses

WISCONSIN: Unqualified because lack hours in technical and academic fields and specified education courses

WYOMING: Qualified

SUMMARY

Qualified -- 21 states
Unqualified -- 23 states
FINDINGS
for the
STATE OF NEW YORK *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive for lack of specified education courses

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; while have ample hours in industrial education, they do not substitute for those required and specified subjects lacking in technical field

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; lack sufficient technical courses to meet requirements

COLORADO: Qualified for the Special Temporary Certificate valid for teaching only industrial arts

Qualified (Provisionally) for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado providing substitutions can be made for two education courses

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto

Qualified for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time

DELAWARE: Qualified for the Special Branches Certificate valid for both manual and industrial education teaching in all high schools

Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"

* Includes holders of certificates valid for teaching industrial arts in New York and based on graduation from the industrial arts curricula at the New York State Teachers' Colleges at Buffalo and Oswego, New York.
FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon; lack sufficient subject hour concentration

Unqualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon for the above reason

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in high and elementary schools for the teaching of industrial arts; lack sufficient technical preparation and certain specified education subjects

Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitutions can be made for two education courses

IOWA: Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts) providing substitution can be made for one education course

Qualified (Provisionally) for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on certificate in the grades and high school with the above provision

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient technical hours and one specified education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools
MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary schools.

Qualified for the First Provisional Professional Certificate, the regular secondary credential.

MARYLAND: Qualified (Provisionally) for the Special Certificate to teach industrial arts providing substitution possible for one education course.

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in technical field and certain specified subjects.

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitutions can be made for two education courses.

MINNESOTA: Qualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools.

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time.

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified education subjects.

MONTANA: No preparation is given for teaching industrial arts in Montana -- a three-year experience in trade would bar many teachers of industrial arts from out-of-state.

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive.

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack sufficient concentration of hours to meet minor teaching field requirement.

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college.

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers.

NEW MEXICO: Unqualified for the Special Certificate to teach indus-
trial arts in any grade; lack specified education courses

NORTH CAROLINA: Qualified (Provisionally) for the High School Teachers' Certificate to teach industrial arts providing substitution can be made for one education course.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State.

Qualified for the Special Certificate valid for teaching only the subject named thereon.

OHIO: Unqualified for the Industrial Arts Certificate requiring a major in that subject; lack sufficient technical hours and certain specified education courses.

Qualified (Provisionally) for the Industrial Arts Certificate requiring a minor in that subject providing substitutions can be made for two education subjects.

OKLAHOMA: Unqualified for the One-Year Certificate based on two years of training and for special subjects only; lack specified subjects in education and technical fields.

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack specified subject requirements in education and technical fields.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 quarter hours graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching special subjects in the high schools and junior high schools that include one or more grades above the 8th for the above reasons.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient subject hour concentration to meet 12 semester hour technical requirement for each subject and course taught.

Unqualified for the Standard Temporary Certificate valid for teaching only the subjects written thereon for above reason.

RHODE ISLAND: Unqualified because of 400 clock hour (22% semester hours) practice teaching residence requirement.

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher cer-
tification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical, education and industrial education subject hours

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours professional education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary schools; lack hours in industrial education, technical and academic fields

WISCONSIN: Unqualified -- lack hours in technical and academic fields

WYOMING: Qualified

SUMMARY

Qualified -- 25 states
Unqualified -- 19 states
CURRICULA SOURCES

State Teachers' College
Buffalo, New York

Oswego State College
Oswego, New York
FINDINGS
for the
STATE OF NORTH CAROLINA *


ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack one semester hour practice teaching and specified education courses.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain specified education and technical courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as endorsed thereon in the public schools of the State; lack specified technical courses and sufficient technical hours.

COLORADO: Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack specified education courses.

Qualified for the Special Temporary Certificate valid for teaching only industrial arts.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto.

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours practice teaching.

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts" for the same reason.

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid.

* Includes holders of certificates valid for teaching industrial arts in North Carolina and based on graduation from the industrial arts curriculum at North Carolina Agricultural and Mechanical College, Raleigh, North Carolina.
for the teaching of the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack specified education courses

Unqualified for the Special License valid in high and elementary schools for teaching industrial arts; lack sufficient technical preparation and certain specified education courses

IOWA: Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts) providing a substitution can be made for one education course

Qualified (Provisionally) for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts endorsed thereon in the grades and high school with above provision

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours technical field and certain specified education courses

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools

MAINE: Qualified for the Special Provisional Certificate valid for teaching industrial arts in both the high and elementary grades
Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack one hour practice teaching and hours in the technical field

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education and technical fields

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack one semester practice teaching and certain specified courses in education

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one specified education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement bars many industrial arts teachers from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certification valid for teach-
ing industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate valid for teaching in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: Unqualified for the Industrial Arts Certificate requiring a major in that subject; lack sufficient technical training

Qualified (Provisionally) for the Industrial Arts Certificate requiring a minor in that subject providing substitutions can be made for two education courses

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only in industrial arts; lack certain specified education and shop courses

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack hours in practice teaching and certain specified education and shop courses

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the senior or junior high schools that include one or more grades above the 6th for the above reasons

Pennsylvania: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack two semester hours practice teaching and concentration of subject hours

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reasons

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high schools of the State
TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical, professional industrial education and education courses

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack one semester hour practice teaching and hours in industrial education and technical fields

WISCONSIN: Unqualified -- lack technical hours and specified courses in education

WYOMING: Qualified

SUMMARY

Qualified -- 24 states
Unqualified -- 20 states

CURRICULUM SOURCE

North Carolina A. & M. College
Raleigh, North Carolina
FINDINGS
for the
STATE OF NORTH DAKOTA *

ALABAMA: Qualified (Provisionally) for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools providing a substitution can be made for a two semester hour academic subject.

ARIZONA: Qualified for the Special Certificate valid for teaching industrial arts in grades 1-12 inclusive.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack academic subject hours and specified subjects in industrial education, education and technical fields.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as endorsed thereon; lack specified technical courses.

COLORADO: Qualified (Provisionally) for the Special Temporary Certificate valid for teaching only industrial arts providing a substitution can be made for one education course.

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject.

Qualified for the Limited Secondary Certificate valid for teaching industrial arts and requiring less than half time.

DELWARE: Qualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts.

Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical preparation.

* Includes holders of certificates valid for teaching industrial arts in North Dakota and based on graduation from the industrial arts curriculum at the University of North Dakota, University, North Dakota.
FLORIDA: Qualified for the 2 Year Graduate Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades

Qualified for the Special License valid in the high and elementary schools for the teaching of industrial arts

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject of industrial arts

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours technical preparation

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools of the State

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the
regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack required technical course

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in technical and academic subjects

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching industrial arts major preparation in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified ( Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts
OHIO: **Qualified** for the Industrial Arts Certificate requiring a minor in that subject

**Unqualified** for the Industrial Arts Certificate requiring a major in that subject for lack of technical preparation

OKLAHOMA: **Unqualified** for the One-Year Certificate based on two years of training and for special subjects only; lack specified education course and hours in an academic subject

**Unqualified** for the Life Certificate based on four years of training and for special subjects only for the same reasons

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law

**Unqualified** for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the senior and junior high schools that include one or more grades above the 8th for the same reasons

PENNSYLVANIA: **Unqualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack adequate subject concentration in technical field

**Unqualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for the above reason

RHODE ISLAND: **Unqualified** because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: **Qualified** to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: **Qualified** for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: **Qualified** for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: **Qualified** for the Special 3 Year Certificate to teach industrial arts

**Qualified** for the Special 4 Year Certificate to teach industrial arts

**Qualified** for the Special Permanent Certificate to teach industrial arts
UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical preparation

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate for teaching and supervising industrial arts in the secondary and elementary schools; lack technical and academic courses

WISCONSIN: Unqualified -- lack academic and technical subject hours and specified courses in education

WYOMING: Qualified

SUMMARY

Qualified -- 28 states
Unqualified -- 16 states

CURRICULUM SOURCE

University of North Dakota
University, North Dakota
FINDINGS
for the
STATE OF OHIO *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in an academic subject and adequate concentration of subject hours to meet minor teaching field requirement.

ARIZONA: Qualified for the Special Certificate entitling the holder to teach industrial arts in any grade in elementary and high schools.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts subjects as endorsed thereon; lack sufficient hours in an academic subject and certain specified education and technical subjects.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subject as indicated thereon; lack specific technical course requirements.

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack specified industrial education subject (Vocational Guidance).

Qualified (Provisionally) for the Graduate Temporary Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado providing a substitute can be made for one specified education course.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto.

Qualified for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours directed teaching.

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and In-

* Includes holders of certificates valid for teaching industrial arts in Ohio and based on graduation from the industrial arts curricula at the University of Ohio, Athens, and Ohio State University, Columbus, Ohio.
Industrial Arts" for the same reason

FLORIDA: **Qualified** for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

**Qualified** for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation as such given

IDAHO: **Qualified (Provisionally)** for the State High School Certificate, a blanket affair, permitting the holder to teach industrial arts or any subject in grades 7-12 providing the 12 semester hour or 6 week residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

**Qualified (Provisionally)** for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: **Qualified** for the Limited State Special Certificate to teach industrial arts

INDIANA: **Qualified** for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades

**Qualified** for the Special License valid in high and elementary schools for teaching industrial arts

IOWA: **Qualified** for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts)

**Qualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack required amount of background courses

KENTUCKY: **Qualified** for permission to teach industrial arts as a major or minor subject

LOUISIANA: **Qualified** to teach industrial arts in high schools

MAINE: **Qualified** for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary schools
Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack specified courses in education and electricity

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack certain specified technical courses and hours in the social studies

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution for one specified education course can be made

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts
NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; directed registration necessary to concentrate subject hours to meet minor teaching field requirement.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate valid for teaching in any of the public schools in the State. Qualified for the Special Certificate valid for teaching only the subject named on the certificate.

OKLAHOMA: Unqualified for the One-Year Certificate based on two years training and for special subjects only; lack specified subjects in technical and academic fields. Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack sufficient hours practice teaching and specified subjects in technical and academic fields.

OREGON: Unqualified for Special Certificate to teach the industrial arts subject or subjects named thereon; lack 15 quarter hours graduate work and courses in Oregon History and School Law. Unqualified for the Standard Four Year High School Certificate valid for teaching special subjects in the high schools and junior high schools that include one or more grades above the 8th for the same reasons.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours directed teaching. Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for same reason.

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement.

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present.

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school.

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State.

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts.
Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subjects

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified for lack of 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for Special Non-academic Certificate to teach and supervise industrial arts in the secondary schools; lack academic hours

WISCONSIN: Unqualified -- lack sufficient hours in certain academic subjects and certain specified subjects in industrial education

WYOMING: Qualified

SUMMARY

Qualified -- 21 states
Unqualified -- 23 states

CURRICULA SOURCES

Ohio University
Athens, Ohio

Ohio State University
Columbus, Ohio
FINDINGS for the STATE OF OKLAHOMA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient academic subjects as well as one specified education course

ARIZONA: Qualified (Provisionally) for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive providing substitution can be made for one education course

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack hours in academic, industrial education, technical and education fields

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as endorsed thereon; lack specified subjects

COLORADO: Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack academic and vocational education subjects

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack education and academic subjects

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject

Qualified (Provisionally) for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time providing a substitution can be made for one education course

DELAWARE: Qualified (Provisionally) for the Special Branches Certificate valid for teaching manual or industrial education in all high schools providing substitution can be made for four semester hours education

* Includes holders of certificates valid for teaching industrial arts in Oklahoma and based on graduation from the industrial arts curricula at the University of Oklahoma, Norman, and Oklahoma Agricultural and Mechanical College, Stillwater, Oklahoma.
Qualified (Provisionally) for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts" with the above provision.

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon.

Qualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon.

GEORGIA: No certification date received and no industrial arts preparation for teachers offered as such.

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied.

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied.

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts.

INDIANA: Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack sufficient technical courses.

Unqualified for the Special License valid in high and elementary grades for teaching industrial arts for the above reason.

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in the high school the major subject (industrial arts).

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school.

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitution can be made for one education subject.

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject.

LOUISIANA: Qualified to teach industrial arts in high schools of the State.
MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary schools

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack one semester hour practice teaching and a specified technical course

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in education, academic and technical subjects

MICHIGAN: Qualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools, providing substitution possible for one specified education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain academic and education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour
residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Qualified (Provisionally) for the Industrial Arts Certificate requiring a major of 40 semester hours in that subject providing substitutions can be made for one technical and one education course

Qualified (Provisionally) for the Industrial Arts Certificate requiring a minor of 16 semester hours in that subject providing the above substitutions can be made

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching special subjects in the high and junior high schools that include one or more grades above the 8th for the same reasons

PENNSYLVANIA: Qualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon

Qualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present -- committee now at work on more specific regulations

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate
with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: **Qualified** for the Special 3 Year Certificate to teach industrial arts

**Qualified** for the Special 4 Year Certificate to teach industrial arts

**Qualified** for the Special Permanent Certificate to teach industrial arts

UTAH: **Unqualified** for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements

VERMONT: **Qualified** for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: **Qualified** -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: **Unqualified** for lack of 45 quarter hours graduate work

WEST VIRGINIA: **Unqualified** for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary grades; lack academic, education and technical courses

WISCONSIN: **Unqualified** -- lack hours in social studies and specified courses in education

WYOMING: **Qualified**

**SUMMARY**

Qualified -- 28 states
Unqualified -- 16 states

**CURRICULA SOURCES**

University of Oklahoma
Normen, Oklahoma

Oklahoma A. & M. College
Stillwater, Oklahoma
FINDINGS
for the
STATE OF OREGON *

ALABAMA: Qualified (Provisionally) for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools providing the six semester hour history requirement is satisfied.

ARIZONA: Qualified (Provisionally) for the Special Certificate entitling the holder to teach industrial arts in any grade in elementary and high schools; providing an additional semester hour in directed teaching is presented.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain technical courses and hours in an academic subject.

CALIFORNIA: Qualified (Provisionally) for the Special Secondary Credential in Industrial Arts Education, valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; providing certain specified technical courses are presented.

COLORADO: Qualified (Provisionally) for the Special Temporary Certificate valid for teaching only industrial arts; providing requirement of vocational guidance is satisfied.

Qualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; providing the requirement of vocational guidance is satisfied.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto.

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time.

DELAWARE: Qualified (Provisionally) for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; providing two additional semester hours of practice teaching are presented.

* Includes holders of certificates valid for teaching industrial arts in Oregon and based on graduation from the industrial arts curriculum at Oregon State College, Corvallis, Oregon.
Qualified (Provisionally) for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; providing two additional semester hours of practice teaching are presented.

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon.

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon.

GEORGIA: No certification date received and no industrial arts teacher preparation given as such.

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied.

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied.

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts.

INDIANA: Qualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades.

Qualified for the Special License valid in high and elementary schools for the teaching of industrial arts.

IOWA: Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the major subject of preparation (industrial arts); lack sufficient subject hour concentration to permit of two teaching minors.

Qualified for the Special Subject Certification valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school.

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack required hours academic subjects.

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject.

LOUISIANA: Qualified to teach industrial arts in the high schools.
MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Qualified (Provisionally) for the Special Certificate to teach industrial arts; providing two additional semester hours of practice teaching are presented

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack adequate hours in certain academic subjects and two specified technical courses

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution can be made for one education course

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one specified education subject

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain academic subject hours and specified education subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers
NEW MEXICO: **Qualified (Provisionally)** for the Special Certificate to teach industrial arts in any grade providing the six semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: **Qualified** for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: **Qualified** for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

**Qualified** for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: **Qualified** for the Industrial Arts Certificate requiring a major of 40 semester hours in industrial arts

**Qualified** for the Industrial Arts Certificate requiring a minor of 16 semester hours in industrial arts

OKLAHOMA: **Qualified (Provisionally)** for the One-Year Certificate based on two years of training and for special subjects only; providing two additional semester hours of practice teaching and certain specified education subjects are presented

**Qualified (Provisionally)** for the Life Certificate based on four years of training and for special subjects only in industrial arts; providing two additional semester hours of practice teaching and certain specified education subjects are presented

PENNSYLVANIA: **Unqualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack three semester hours practice teaching and concentration of subject hours

**Unqualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack three semester hours in practice teaching and the subject hour concentration mentioned above

RHODE ISLAND: **Unqualified** because of 400 clock hour (22 1/2 semester hours) practice teaching residence requirement

SOUTH CAROLINA: **Qualified** to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present
SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Qualified (Provisionally) -- providing 30 quarter hours additional graduate work is presented; graduate work is available with opportunity for graduate major in industrial education

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack hours in certain academic subjects and industrial education

WISCONSIN: Qualified (Provisionally) -- five additional quarter hours in social studies and a certain education course must be presented

WYOMING: Qualified

SUMMARY

Qualified -- 33 states
Unqualified -- 11 states

CURRICULUM SOURCE

Oregon State College
Corvallis, Oregon
FINDINGS
for the
STATE OF PENNSYLVANIA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in an academic subject and a specified education course.

ARIZONA: Qualified (Provisionally) for the Special Certificate entitled the holder to teach industrial arts in grades 1-12 inclusive providing substitutions can be made for two education courses.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain specified education and technical courses and hours in social studies.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; lack specified subjects in technical field.

COLORADO: Qualified (Provisionally) for the Special Temporary Certificate valid for teaching only industrial arts providing substitutions can be made for two education courses.

Qualified (Provisionally) for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado providing the above substitutions can be made.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto.

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical courses.

Qualified for the Special Subject Certificate valid for teaching in

* Includes holders of certificates valid for teaching industrial arts in Pennsylvania and based on graduation from the industrial arts curriculum at Pennsylvania State College, State College.
both the high and elementary grades the subject of "Fine and Industrial Arts"

FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for the teaching of the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation as such given

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Qualified (Provisionally) for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades providing substitutions can be made for two education courses

Qualified (Provisionally) for the Special License valid in high and elementary schools for teaching industrial arts providing substitutions can be made as above

IOWA: Qualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the major subject of preparation (industrial arts)

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any school in the State providing substitutions possible in field of education

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in high schools of State

MAINE: Qualified for the Special Provisional Certificate valid for
teaching industrial arts in both the high and elementary schools

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Qualified for the Special Certificate to teach industrial arts

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack of sufficient hours in one academic subject and certain specified industrial education and technical courses

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitutions can be made for two education courses

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution possible for one specified education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain academic subject hours and certain specified subject courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate valid for teaching in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are
satisfied and a substitution made for one education course

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified (Provisionally) for the High School Teachers' Certificate to teach industrial arts providing substitution can be made for either one of two education courses

NORTH DAKOTA: Qualified for 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring a major in that subject; lack certain specified education and technical subjects

Unqualified for the Industrial Arts Certificate requiring a minor in that subject for the same reasons

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; need substitutions in specified education courses and lack hours in certain academic subjects

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts for the same reasons

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including industrial arts) in the high schools and junior high schools that include one or more grades above the 8th for the same reasons

RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school
TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical hours in shop and specified subjects in industrial education

VERMONT: Qualified for the General High School Teachers' Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts in the secondary and elementary schools; lack hours in certain academic subjects and lack certain specified education subjects

WISCONSIN: Unqualified -- lack sufficient hours in social studies and certain specified education courses

WYOMING: Qualified

SUMMARY

Qualified -- 29 states
Unqualified -- 15 states

CURRICULUM SOURCE

Pennsylvania State College
State College, Pennsylvania
FINDINGS
for the
STATE OF RHODE ISLAND

"No apology need be made for high standards for any profession. While the primary purpose of the certification statute is assurance that money for public education is expended for excellent instruction, the teacher is protected by certification against competition for employment by persons who are not well qualified to teach."

In accordance with the policies set forth in the above quoted paragraph from the Rhode Island Department of Education "Certification of Teachers" Bulletin is the certification requirement of 400 clock hours (22½ semester hours) practice teaching that must be done in residence in Rhode Island. This is an effective barrier to out-of-state teachers and certainly gives home teachers the protection mentioned above.

However, it would appear that the State might well lower the barrier as regards industrial arts teachers in order to obtain a "better qualified" product for their money. On page 2, James F. Rockett, the Director of Education, states: "The standard established for professional certification in Rhode Island parallels the course for preparing teachers maintained at Rhode Island College of Education." Reference to the catalog of this school gives the following: "Since September 1926 but a single course four years in length leading to degree of Bachelor of Education has been offered. Through electives in later years of this course, students may prepare themselves for special kinds of teaching, as for instance special subjects in high school."

The elective courses available for industrial arts or manual arts
as they term it, at the Rhode Island College of Education are:

Penmanship................1 semester hour
Manual Training.............1 semester hour
Handiwork.....................1 semester hour

Hence, Rhode Island prepared teachers can qualify in only three states as follows:

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State but requiring no technical preparation

SOUTH CAROLINA: **Qualified** to meet requirements of the Southern Accrediting Association -- no technical preparation required

VERMONT: **Qualified** -- no industrial arts teacher certification required beyond 12 semester hours of education and degree preparation
FINDINGS
for the
STATE OF SOUTH CAROLINA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack hours in the academic field and a specified education subject

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack specified education courses and sufficient technical preparation

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain education, industrial education and technical courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack specified technical subjects

COLORADO: Qualified (Provisionally) for the Special Temporary Certificate valid for teaching only industrial arts providing a substitute can be made for one industrial education course

Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack specified education courses

CONNECTICUT: Qualified for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time

Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto; lack adequate technical subject hour concentration

DELWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical preparation

* Includes holders of certificates valid for teaching industrial arts in South Carolina and based on graduation from the industrial arts curriculum at Clemson Agricultural College, Clemson College, South Carolina,
Unqualified for the Special Subject Certificate valid for teaching both the high and elementary grades the subject of "Fine and Industrial Arts" for the above reason

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient technical preparation and hour concentration

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon for above reasons

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack specified courses in education

Unqualified for the Special License valid in high and elementary schools for teaching industrial arts for above reason

IOWA: Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts) providing a substitution can be made for one education course

Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school; lack sufficient technical preparation

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack specified education subjects and sufficient technical preparation

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject
LOUISIANA: Qualified to teach industrial arts in high schools

MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary schools

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack specified technical courses and sufficient hours in technical field

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in education, academic and technical fields

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution can be made for one education course

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack sufficient technical preparation and specified education courses

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain education subjects and sufficient technical subject hour concentration

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement
bers many out-of-state prepared industrial arts teachers

NEW MEXICO: **Qualified** (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: **Qualified** for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: **Unqualified** for the High School Teachers' Certificate to teach industrial arts; lack hour in technical preparation and sufficient concentration of hours to meet high minor teaching field requirement

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any public school in the State

**Qualified** for the Special Certificate valid for teaching only the subject named thereon

OHIO: **Unqualified** for the Industrial Arts Certificate requiring a major in that subject; lack sufficient technical preparation

**Unqualified** for the Industrial Arts Certificate requiring a minor in that subject; lack of specified technical preparation

OKLAHOMA: **Unqualified** for the One-Year Certificate based on two years of training and for special subjects only; lack specified education and technical courses

**Unqualified** for the Life Certificate based on four years of training and for special subjects only; lack education and technical courses

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law

**Unqualified** for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the senior and junior high schools that include one or more grades above the 8th for the same reasons

PENNSYLVANIA: **Unqualified** for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack adequate concentration of technical subject hours

**Unqualified** for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon
RHODE ISLAND: Unqualified because of 400 clock hour (22[1/2] semester hours) practice teaching residence requirement

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; technical preparation too limited to meet requirements

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack hours in technical, education, and academic fields

WISCONSIN: Unqualified -- lack technical, academic and education hours

WYOMING: Qualified

SUMMARY

Qualified -- 20 states
Unqualified -- 24 states

CURRICULUM SOURCE

Clemson Agricultural College
Clemson College, South Carolina
FINDINGS
for the
STATE OF SOUTH DAKOTA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack hours in education

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack one semester hour practice teaching, education and technical subject hours and specified education courses

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any junior or senior high school in the State; lack specified education and technical courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools; lack certain specified technical courses and sufficient hours practice teaching

COLORADO: Unqualified for the Graduate Temporary Certificate valid for teaching any subject (including industrial arts) in any school in Colorado; lack one semester hour practice teaching and specified education courses

Qualified (Provisionally) for the Special Temporary Certificate valid for teaching only industrial arts providing substitutions can be made for one industrial education and one semester hour technical course

CONNECTICUT: Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject; directed registration necessary to meet 6 semester hour specific industrial arts requirement

Qualified for the Limited Secondary Certificate for teaching industrial arts requiring less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient technical courses and hours in practice teaching

* Includes holders of certificates valid for teaching industrial arts in South Dakota and based on graduation from the industrial arts curriculum at South Dakota Agricultural and Mechanical College, Brookings, South Dakota,
Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts" for above reasons.

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient technical hour concentration.

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon.

GEORGIA: No certification data received and no industrial arts teacher preparation given as such.

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied.

Qualified (Provisionally) for the State Specialists' Certificate valid only for teaching industrial arts providing the above set forth residence requirements are satisfied.

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts.

INDIANA: Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; lack sufficient technical specialization and specified education courses.

Unqualified for the Special License valid in high and elementary schools for teaching industrial arts for above reasons.

IOWA: Qualified (Provisionally) for the Standard Secondary Certificate valid for teaching in the 7-8 grades and in high school the major subject (industrial arts) providing substitution can be made for one education course.

Qualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high school.

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient technical preparation, education hours and specified education courses.

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject.

LOUISIANA: Qualified to teach industrial arts in high schools.
MAINE: Qualified for the Special Provisional Certificate the holders of which may teach industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack sufficient hours practice teaching, specified courses in technical and education fields

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient technical, industrial education and education hours

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack hours in practice teaching

MINNESOTA: Qualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain academic subject hours and one specified education course

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts

NEBRASKA: Qualified for the Limited Secondary Schools Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to
teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Unqualified for the High School Teachers' Certificate to teach industrial arts; lack hours in education and sufficient concentration of subject hours for minor teaching field

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools in the State

Qualified for the Special Certificate valid for teaching only the subject named thereon

OHIO: Unqualified for the Industrial Arts Certificate required in that subject; lack required 40 semester hours technical preparation and specified education courses

Unqualified for the Industrial Arts Certificate requiring a minor in that subject; lack specified technical courses

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; lack specified subjects and hours in practice teaching

Unqualified for the Life Certificate based on four years of training and for special subjects only; lack practice teaching hours and specified subjects

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in junior and senior high schools that include one or more grades above the 8th for the same reasons

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects endorsed thereon; lack hours in practice teaching and sufficient technical hour concentration

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon for above reasons
RHODE ISLAND: Unqualified because of 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

TENNESSEE: Unqualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State; lack hours in education

TEXAS: Qualified for the Special 3 Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education hours and specified subjects

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours education and a degree

VIRGINIA: Qualified -- have required degree preparation including 12 semester hours industrial arts

WASHINGTON: Unqualified -- lack 45 quarter hours graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial subjects in the secondary and elementary schools; lack hours in directed teaching and technical field

WISCONSIN: Unqualified -- lack hours in technical preparation and specified education courses

WYOMING: Qualified

SUMMARY

Qualified -- 19 states
Unqualified -- 25 states

CURRICULUM SOURCE

South Dakota A. & M. College, Brookings, South Dakota
FINDINGS
for the
STATE OF TENNESSEE *

ALABAMA: Qualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools

ARIZONA: Unqualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack sufficient hours in practice teaching, education and academic courses, and proper subject hour concentration for minor field

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack sufficient hours in several specified courses

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; deficient in subject specifications and technical requirements

COLORADO: Unqualified for the Graduate Temporary Certificate that permits the teaching of any subject (including industrial arts) in any school in Colorado; lack sufficient hours in several specifications, education, academic and technical fields

Unqualified for Special Temporary Certificate valid for teaching only industrial arts; deficiencies noted above

CONNECTICUT: Unqualified for Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted to that subject; directed registration necessary to meet 6 semester hour specific industrial arts requirement

Qualified for the Limited Secondary Certificate for the teaching of industrial arts and requiring less than half time

DELAWARE: Unqualified for Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack several course specifications

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and In-

* Includes holders of certificates valid for teaching industrial arts in Tennessee and based on graduation from the industrial arts curriculum at the University of Tennessee, Knoxville, Tennessee.
due to deficient course specifications

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient hours to satisfy the specialization requirement and subject hour concentration

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon because of above deficiencies

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour or 6 week summer graduate residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts providing above residence requirements are satisfied

ILLINOIS: Qualified for the Limited Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in the high and elementary schools for teaching industrial arts; lack certain specified education courses and sufficient hours to satisfy specialization requirement

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades; deficiency noted above

IOWA: Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high schools; lack certain education and academic courses and sufficient subject hour concentration for minor teaching fields and specialization

Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts) for above reasons

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack certain education courses and sufficient hours of specialization

KENTUCKY: Qualified for permission to teach industrial arts as a major
or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate, the holder of which may teach the subject industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack certain specified technical courses and hours in education

MASSACHUSETTS: Unqualified for teaching industrial arts in high school for lack of sufficient hours in education and technical specialization

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack sufficient hours of practice teaching and education and subject hour concentration for minor teaching field

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack sufficient hours specialization

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified education courses and technical course hours

MONTANA: No preparation is given for teaching industrial arts in Montana -- a three-year trade experience requirement would bar many out-of-state industrial arts teachers

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Unqualified for the Regular High School Certificate to teach in any high school in the State; lack sufficient hours technical preparation

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum
in college

NEW JERSEY: **Unqualified** -- lack sufficient hours in practice teaching and specified education courses; the ten-week practice period in trade requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: **Unqualified** for the Special Certificate to teach industrial arts in any grade; lack hours in education and must satisfy the 6 semester hour residence and "Problems in Education in New Mexico" requirements

NEW YORK: **Unqualified** for the Provisional Certificate valid for teaching industrial arts; lack sufficient technical preparation

NORTH CAROLINA: **Unqualified** for the High School Teachers' Certificate to teach industrial arts; lack certain specified education courses and sufficient technical hours

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State

**Qualified** for the Special Certificate valid for teaching only the subject named thereon

OHIO: **Unqualified** for the Industrial Arts Certificate requiring a 40 semester hour major in that subject; lack specified education courses

**Unqualified** for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject; lack certain education courses

OKLAHOMA: **Unqualified** for the One Year Certificate based on two years of training and for special subjects only; lack hours in practice teaching, technical courses and others

**Unqualified** for the Life Certificate based on four years of training and for special subjects only in industrial arts for above reasons

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack hours to meet the technical requirement, certain education courses, 15 quarter hours of graduate work and courses in History of Oregon and School Law

**Unqualified** for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the high schools and junior high schools that include one or more grades above the 8th for the same reasons

PENNSYLVANIA: **Unqualified** for the Provisional College Certificate
valid for teaching only those industrial arts subjects written thereon; lack sufficient practice teaching and subject hour concentration

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack above specifications

RHODE ISLAND: Unqualified because of the 400 clock hour (22½ semester hours) residence practice teaching requirement

SOUTH CAROLINA: Qualified to meet the requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Unqualified for the High School Special Certificate valid for teaching industrial arts in high school; lack sufficient hours technical courses

TEXAS: Qualified (Provisionally) for the Special 3 Year Certificate to teach industrial arts providing requirement of 6 semester hours American Government satisfied

Qualified (Provisionally) for the Special 4 Year Certificate to teach industrial arts with above proviso

Qualified (Provisionally) for the Special Permanent Certificate to teach industrial arts with above proviso

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack sufficient hours in technical preparation and other specifications

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation that includes 12 semester hours of industrial arts training

WASHINGTON: Unqualified for lack of 45 quarter hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary schools; lack sufficient hours in several specifications

WISCONSIN: Unqualified for lack of certain courses in education and sufficient hours in practice teaching and technical field

WYOMING: Qualified
SUMMARY

Qualified -- 13 states
Unqualified -- 31 states

CURRICULUM SOURCE

University of Tennessee
Knoxville, Tennessee
FINDINGS
for the
STATE OF TEXAS *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack specified education and academic subjects

ARIZONA: Unqualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack sufficient hours practice teaching, specified education courses and subject hour concentration for a minor teaching field

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack courses in education, professional industrial arts and technical subjects

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools; lack specified subjects and sufficient credits in practice teaching

COLORADO: Qualified for the Special Certificate valid for teaching only industrial arts

Qualified for the General High School Certificate valid for teaching any subject (including the special subject of industrial arts) in any school in Colorado; lack certain education and academic courses

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto

Qualified for the Limited Secondary Certificate for teaching industrial arts less than half time

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack certain courses in education, and hours in practice teaching and technical field

* Includes holders of certificates valid for teaching industrial arts in Texas, and graduates of the industrial arts curricula at the Texas Technological College, Lubbock, and Sam Houston State Teachers' College, Huntsville, Texas.
Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; deficiencies noted above

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack a specified education course and sufficient subject hour concentration

Unqualified for the 4 Year Graduate State Certificate valid for teaching the industrial arts subject endorsed thereon due to above deficiencies

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in the high and elementary schools for teaching industrial arts; lack certain specified education courses and sufficient hours to satisfy technical requirement

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades because of above deficiencies

IOWA: Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high schools; lack certain specified education courses and sufficient concentration of hours for minor teaching field

Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts) for above reasons

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack a specified education course and sufficient technical preparation
KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate, the holder of which may teach the subject of industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack sufficient hours in education, practice teaching and technical subjects

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education, academic and technical courses

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack certain specified education courses and hours in practice teaching

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be made for one education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified courses in education

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many out-of-state industrial arts teachers

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college
NEW JERSEY: Unqualified -- lack courses in education and specified academic courses; ten-week practical experience requirement bars many out-of-state teachers.

NEW MEXICO: Unqualified for the Special Certificate to teach industrial arts in any grade; lack sufficient hours in practice teaching and must satisfy the 6 semester hours residence and "Problems in Education in New Mexico" requirements.

NEW YORK: Qualified (Provisionally) for the Provisional Certificate valid for teaching industrial arts, providing an additional hour of practice teaching is satisfied.

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts.

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate enabling the holder to teach in any of the public schools of the State.

Qualified for the Special Certificate valid for teaching only the subject named thereon.

OHIO: Unqualified for the Industrial Arts Certificate; lack sufficient hours specialization and specified education courses.

Unqualified for the Industrial Arts Certificate requiring a 16 semester minor in that subject; lack certain education courses.

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; lack sufficient hours in practice teaching, certain education courses and technical subjects.

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts; lack specifications as above.

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours of graduate work and courses in Oregon History and School Law.

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the high schools and in junior high schools that include one or more grades above the 8th for same reasons as above.

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours practice teaching and subject hour concentration.
Unqualified for the Standard Temporary Certificate valid for teaching only those industrial subjects written thereon; lack specifications as above.

RHODE ISLAND: Unqualified because of the 400 clock hour (22\(\frac{1}{2}\) semester hours) residence practice teaching requirement.

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present.

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school.

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the state.

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack sufficient hours in industrial education and available technical courses inadequate.

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree.

VIRGINIA: Qualified — have degree preparation that includes 12 semester hours of industrial arts training.

WASHINGTON: Unqualified for lack of 45 quarter hours of graduate work.

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary schools; lack sufficient hours in a number of specifications.

WISCONSIN: Unqualified for lack of technical, education and academic hours.

WYOMING: Qualified

**SUMMARY**

Qualified — 19 states
Unqualified — 25 states
CURRICULA SOURCES

Sam Houston State Teachers' College
Huntsville, Texas

Texas Technological College
Lubbock, Texas
FINDINGS
for the
STATE OF UTAH *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient academic, education and technical courses

ARIZONA: Unqualified for the Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack specified education courses and sufficient concentration of subject hours to meet minor teaching field requirement

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack hours in education, professional industrial arts and academic subjects

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon; lack specified subjects

COLORADO: Qualified (Provisionally) for the General High School Certificate that permits the teaching of any subject (including industrial arts) in any school in Colorado providing substitution can be made for certain education courses

Qualified (Provisionally) for the Special Certificate valid for teaching only industrial arts, providing as above

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more time being devoted to that subject

Qualified for the Limited Secondary Certificate for teaching of industrial arts and requiring less than half time

DELWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack certain specified education hours and concentration of subject hours

Unqualified for the Special Subject Certificate valid for teaching in both the high and elementary grades the subject of "Fine and Industrial Arts"; deficiencies as above listed

* Includes holders of certificates valid for teaching industrial arts in Utah and based on graduation from the industrial arts curriculum at the Utah Agricultural College, Logan, Utah.
FLORIDA: **Unqualified** for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack sufficient concentration of subject hours and certain education courses

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; lack above hours and subjects

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: **Qualified (Provisionally)** for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts providing the above residence requirements are satisfied

ILLINOIS: **Qualified** for the Limited State Special Certificate to teach industrial arts

INDIANA: **Unqualified** for the Special License valid in the high and elementary schools for teaching industrial arts; lack certain specified education courses and hours in subject specialization

Unqualified for the Regular Certification License valid for teaching industrial arts in the high, junior and 7-8 grades because of above deficiencies

IOWA: **Unqualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high schools; lack certain specified education and academic courses and sufficient technical preparation

Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts); lack sufficient concentration of subject hours

KANSAS: **Unqualified** for the Special Certificate to teach industrial arts in any school in the State; lack courses in academic and education fields

KENTUCKY: **Qualified** for permission to teach industrial arts as a major or minor subject

LOUISIANA: **Qualified** to teach industrial arts in the high schools
MAINE: Qualified for the Special Provisional Certificate, the holder of which may teach the subject of industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack certain courses in education and technical work

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in several specified courses

MICHIGAN: Qualified (Provisionally) for the State Secondary Provisional Certificate to teach industrial arts as a major subject providing substitution can be arranged for one specified course in education

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be had for one education course

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- the ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour
residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: **Qualified** (Provisionally) for the Provisional Certificate valid for teaching industrial arts providing a deficiency of one hour in practice teaching is satisfied

NORTH CAROLINA: **Unqualified** for the High School Teachers' Certificate to teach industrial arts; lack certain education courses and sufficient hours for minor field

NORTH DAKOTA: **Qualified** for the 1st Grade Professional Certificate enabling the holder to teach in any public school in the State

OHIO: **Unqualified** for the Industrial Arts Certificate requiring a 40 semester hour major in that subject; lack certain specified education courses and sufficient subject hour concentration for a minor teaching field

Unqualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject because of above deficiencies

OKLAHOMA: **Unqualified** for the One Year Certificate based on two years of training and for special subjects only; lack hours in practice teaching and specified education and academic courses

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts for above reasons

OREGON: **Unqualified** for the Special Certificate to teach the industrial arts subject or subjects named thereon; lack certain specified education courses and 15 quarter hours graduate work plus courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in high schools and junior high schools that include one or more grades above the 8th for reasons immediately noted above

PENNSYLVANIA: **Qualified** (Provisionally) for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon, providing there is sufficient concentration of subject hours in subjects to be taught

Qualified (Provisionally) for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon, with the above proviso

RHODE ISLAND: **Unqualified** because of the 400 clock hour (22½ semester hours) residence practice teaching requirement
SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified for the Special 3 Year Year Certificate to teach industrial arts

Qualified for the Special 4 Year Certificate to teach industrial arts

Qualified for the Special Permanent Certificate to teach industrial arts

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- certification required is degree preparation that includes 12 semester hours of industrial arts training

WASHINGTON: Unqualified for lack of 45 quarter hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack several courses in education, academic, technical and industrial education fields

WISCONSIN: Unqualified for lack of sufficient hours in academic and education courses

WYOMING: Qualified

SUMMARY

Qualified -- 22 states
Unqualified -- 22 states

CURRICULUM SOURCE

Utah Agricultural College
Logan, Utah
FINDINGS
for the
STATE OF VERMONT

"The State of Vermont has no specific requirements for teachers of industrial arts in our secondary schools. We require that all teachers of high school subjects be graduates of a four-year course and have at least twelve semester hours of professional education. We grant a general high school teaching certificate which is valid for any field on the secondary level."

"At the present time we have no institution in the state which trains teachers in industrial education, so all of our teachers come from outside the state."

The above quoted paragraphs are excerpts from a letter written by Mr. Francis L. Bailey, Commissioner of Education, State of Vermont, Montpelier.
FINDINGS for the STATE OF VIRGINIA

"In response to your inquiry... concerning certification requirements for teachers of industrial arts, I take pleasure in advising that such teachers are required to present degrees from accredited colleges or universities and to have included within their degree requirements at least 12 semester hours in industrial arts."

"Teacher training work in the field of industrial arts is not well developed in any of the institutions of higher learning of this State. Those institutions in which some attention is given to the preparation of teachers of this nature are: Virginia Polytechnic Institute, Blacksburg; Hampton Institute (Negro), Hampton; and Virginia State College for Negroes, Petersburg."

The above quoted paragraphs are excerpts from a letter written by Mr. Thos D. Enson, Director of Higher Education, Commonwealth of Virginia, Richmond.

Inspection of the catalog of the Virginia Polytechnic Institute furnished the following information as to the industrial arts offered:

1 Industrial Engineering instead of industrial arts is the course offered

2 The main objective is to give students a foundation for positions in commercial and management phases of modern industrial organizations

3 No practice teaching or industrial education courses are offered as a part of the program

4 No woodworking courses are offered
The program is exactly what it says -- a curriculum for industrial engineers; certainly not appropriate for preparing industrial arts teachers.
FINDINGS
for the
STATE OF WASHINGTON *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack sufficient hours in education and academic fields.

ARIZONA: Unqualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack hours in certain specified education courses.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack several specified courses in education, technical, and academic fields.

CALIFORNIA: Unqualified for the Special Secondary Certificate in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack concentration of hours in specified subject group.

COLORADO: Unqualified for the Graduate Temporary Certificate that permits the teaching of any subject (including the special subject of industrial arts) in any school in Colorado; lack certain specified education courses.

Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack sufficient technical and education hours.

CONNECTICUT: Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more time being devoted thereto; lack sufficient hours in specified subjects.

Qualified for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial arts education in all high schools; lack sufficient hours in practice teaching and technical field.

Unqualified for the Special Subject Certificate valid for teaching in both high and elementary grades the subject of "Fine and Indus-

* Includes holders of certificates valid for teaching industrial arts in Washington and based on graduation from the industrial arts curriculum at Washington State College, Pullman, Washington.
trial Arts" due to reasons above

FLORIDA: **Qualified (Provisionally)** for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon, providing sufficient concentration of hours is directed in certain subjects

**Qualified (Provisionally)** for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon, with the above proviso

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: **Qualified (Provisionally)** for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour graduate residence requirement plus courses in Idaho School Law and High School Course of Study are satisfied

**Qualified (Provisionally)** for the State Specialists' Certificate valid for teaching only industrial arts, with above provisions

ILLINOIS: **Qualified** for the Limited Special Certificate to teach industrial arts

INDIANA: **Unqualified** for the Special License valid in high and elementary schools for teaching industrial arts; lack sufficient hours in education and technical fields

**Unqualified** for the Regular Certificate or License valid for teaching industrial arts in the high, junior, and 7-8 grades; lack above specifications

IOWA: **Unqualified** for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on certificate in the grades and high schools; lack sufficient technical preparation to meet requirement and a specified education course

**Unqualified** for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts) for above reasons

KANSAS: **Unqualified** for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours in technical and academic subjects

KENTUCKY: **Qualified** for permission to teach industrial arts as a major or minor subject
LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate, the holder of which may teach the subject of industrial arts in both the high and elementary grades

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack sufficient hours in practice teaching and specified technical courses

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools for lack of sufficient hours in education, academic and technical fields and certain specified courses

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack sufficient hours in practice teaching and certain education courses

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack sufficient hours to meet the technical requirement

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many out-of-state teachers of industrial arts

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- lack several specified courses and ten-week practical experience requirement bars many out-of-state prepar-
ed industrial arts teachers

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing the 6 semester hour residence and "Problems in Education in New Mexico" requirements are satisfied

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the 1st Grade Professional Certificate to teach in any public school and for the Special Certificate to teach only the subject endorsed thereon

OHIO: Unqualified for the Industrial Arts Certificate requiring a major of 40 semester hours and for the Industrial Arts Certificate requiring a minor of 16 semester hours; lack sufficient hours in education and technical courses

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only in industrial arts; lack hours in practice teaching, education, technical and academic fields

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts for reasons stated above

OREGON: Qualified (Provisionally) for the Special Certificate to teach the industrial arts subject or subjects named thereon, providing 15 quarter hours of acceptable graduate work plus courses in Oregon History and School Law are presented and substitution can be made for a specified education course

Qualified (Provisionally) for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the high schools and junior high schools that include one or more grades above the 8th, with the above provisions

POLAND: Qualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient concentration in subject hours

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon because of above deficiency

RHODE ISLAND: Unqualified because of the 400 clock hour (22 1/2 semester
hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high schools

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified (Provisionally) for the Special 3 Year Certificate to teach industrial arts providing the requirement of American Government is satisfied

Qualified (Provisionally) for the Special 4 Year Certificate to teach industrial arts, with same proviso

Qualified (Provisionally) for the Special Permanent Certificate to teach industrial arts, with same proviso

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education subjects

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have degree preparation that includes 12 semester hours of industrial arts training

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack sufficient hours to meet several subject specifications

WISCONSIN: Unqualified for lack of certain education and academic courses and hours

WYOMING: Qualified

SUMMARY

Qualified -- 20 states
Unqualified -- 24 states
CURRICULUM SOURCE

Washington State College
Pullman, Washington
FINDINGS
for the
STATE OF WEST VIRGINIA *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack hours in academic and education courses.

ARIZONA: Unqualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12; lack sufficient hours in practice teaching and education.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack sufficient hours in specified academic, technical, education and professional industrial education courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated thereon in the public schools of the State; lack sufficient hours technical preparation.

COLORADO: Unqualified for the Graduate Temporary Certificate that permits the teaching of any subject (including industrial arts) in any school in Colorado; lack certain courses in education.

Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack hours in certain education courses.

CONNECTICUT: Qualified for the Special Certificate valid for teaching industrial arts in the public schools, 50% or more of time being devoted thereto.

Qualified for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time.

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours in practice teaching, education and technical fields.

Unqualified for the Special Subject Certificate valid for teaching in both high and elementary grades the subject of "Fine and Industrial Arts" because of reasons stated above.

* Includes holders of certificates valid for teaching industrial arts in West Virginia and based on graduation from the industrial arts curriculum at the University of West Virginia, Morgantown.
FLORIDA: Qualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

Qualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour graduate residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in the high and elementary schools for teaching industrial arts; lack sufficient education and technical hours

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades for reasons stated above

IOWA: Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high schools; lack sufficient technical preparation

Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts) for reasons stated above

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours in education and hours to satisfy the technical requirement

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject

LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate, the holder of which may teach the subject of industrial arts in both the high and elementary grades
Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack hours in practice teaching and certain technical courses

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education, academic and technical fields

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack hours in education and practice teaching

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be arranged for a course in academic field

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of certain specified education courses

MONTANA: No preparation is given for the teaching of industrial arts in Montana -- a three-year trade experience requirement would bar many out-of-state industrial arts teachers

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- lack hours in practice teaching and education and the ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Unqualified for the Special Certificate to teach industrial arts in any grade; lack sufficient hours in practice teaching and will need to satisfy the 6 semester hour residence and "Problems in Education in New Mexico"
NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for both the 1st Grade Professional and Special Certificates, the former to teach in any of the public schools and the latter to teach the subject endorsed thereon

OHIO: Unqualified for the Industrial Arts Certificate requiring a 40 semester hour major for lack of education and technical hours and for the Industrial Arts Certificate requiring a 16 semester hour minor for lack of education hours

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; lack specified courses in education, technical and academic fields

Unqualified for the Life Certificate based on four years of training and for special subjects only as stated above

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack hours in education and 15 quarter hours of graduate work plus courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the high schools and the junior high schools that include one or more grades above the 8th for above reasons

PENNSYLVANIA: Unqualified for the Professional Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours practice teaching

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient hours practice teaching

RHODE ISLAND: Unqualified because of the 400 clock hour (22½ semester hours) residence practice teaching requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate
with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: **Qualified (Provisionally)** for the Special 3 Year Certificate to teach industrial arts providing the 6 semester hours of American Government is satisfied

**Qualified** for the Special 4 Year Certificate to teach industrial arts with the same proviso

**Qualified** for the Special Permanent Certificate to teach industrial arts with the same proviso

UTAH: **Unqualified** for the Class "A" 3 Year Certificate; lack hours in several specifications

VERMONT: **Qualified** for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: **Qualified** -- certification required is degree preparation that includes 12 semester hours of industrial arts training

WASHINGTON: **Unqualified** for lack of 45 quarter hours of graduate work

WISCONSIN: **Unqualified** -- lack certain subject specifications

WYOMING: **Qualified**

**SUMMARY**

Qualified -- 20 states
Unqualified -- 24 states

**CURRICULUM SOURCE**

University of West Virginia
Morgantown, West Virginia
FINDINGS for the STATE OF WISCONSIN *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack hours in specified education and academic courses.

ARIZONA: Unqualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack sufficient hours in practice teaching and certain specified education courses.

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack certain specified education and industrial arts administrative courses.

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential in the public schools of the State; lack specified courses.

COLORADO: Unqualified for the General High School Certificate permitting the holder to teach any subject (including industrial arts) in any school in Colorado; specified courses lacking.

Unqualified for the Special Certificate valid for teaching only industrial arts for above reason.

CONNECTICUT: Qualified for the Special Certificate to teach industrial arts in the public schools, 50% or more of time being devoted thereto.

Qualified for the Limited Secondary Certificate for teaching industrial arts and requiring less than half time.

DELWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours practice teaching and education.

Unqualified for the Special Subject Certificate valid for teaching in both high and elementary grades the subject of "Fine and Industrial Arts"; lack hours in education and practice teaching.

* Includes holders of certificates valid for teaching industrial arts in Wisconsin and based on graduation from the industrial arts curriculum at Stout Institute, Menomonie, Wisconsin.
FLORIDA: Unqualified for the 2 Year Graduate Certificate valid for teaching the individual industrial arts subject endorsed thereon; directed registration necessary to satisfy education hours and concentration in subject groups

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon for above reasons

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Qualified (Provisionally) for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive, providing the 12 semester hour or 6 week graduate summer school residence requirement plus courses in Idaho School Law and Idaho High School Course of Study are satisfied

Qualified (Provisionally) for the State Specialists' Certificate valid for teaching only industrial arts providing the above residence requirements are satisfied

ILLINOIS: Qualified for the Limited Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in the high and elementary schools for teaching industrial arts; lack hours in certain specified education courses

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior and 7-8 grades for above reason

IOWA: Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated on the certificate in the grades and high school; lack sufficient hours in education and directed registration necessary to satisfy two minor teaching fields

Unqualified for the Standard Secondary Certificate valid for teaching in the 7-8 grades and high school the preparation major (industrial arts) due to reasons set forth above

KANSAS: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any high school in the State providing substitution possible for an education course

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject
LOUISIANA: Qualified to teach industrial arts in the high schools.

MAINE: Qualified for the Special Provisional Certificate the holder of which may teach the subject of industrial arts in both the high and elementary schools.

Qualified for the First Provisional Professional Certificate, the regular secondary credential.

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack sufficient practice teaching and directed registration necessary to secure proper distribution of technical course hours.

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours in education and technical hours.

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; deficient in practice teaching and education hours.

MINNESOTA: Qualified (Provisionally) for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools providing substitution can be made for one education course.

MISSISSIPPI: Certification requirements reported as being lacking at this time -- now in process of change.

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate valid for teaching woodwork, drawing and 5 semester hour subjects in the first-class high schools for lack of hours in several specified education courses and sufficient subject hour concentration.

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive.

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State.

NEW HAMPSHIRE: Unqualified -- require graduation from industrial arts curriculum in high school and from trades and industries curriculum in college.

NEW JERSEY: Unqualified by reason of the ten-week practical experience requirement and deficiencies in practice teaching and education.

NEW MEXICO: Qualified (Provisionally) for the Special Certificate to teach industrial arts in any grade providing substitution possible for one education course and the 6 semester hour residence require-
ment is satisfied plus "Problems in Education in New Mexico"

NEW YORK: Qualified for the Provisional Certificate valid for teaching industrial arts

NORTH CAROLINA: Qualified (Provisionally) for the High School Teachers' Certificate to teach industrial arts providing substitution can be made for one education course

NORTH DAKOTA: Qualified for both the 1st Grade Professional Certificate and the Special Certificate, the former to teach in any school and the latter to teach the subject endorsed thereon

OHIO: Unqualified for the Industrial Arts Certificate requiring a major and also that requiring a minor in that subject; lack certain education courses

OKLAHOMA: Unqualified for the One Year Certificate based on two years training and for special subjects only; lack several specified courses in education, and hours in practice teaching and academic fields

Unqualified for the Life Certificate based on four years of training and for special subjects only in industrial arts for reasons above

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack certain education courses, 15 quarter hours graduate work and courses in Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject including industrial arts in the high schools and junior high schools that include one or more grades above the 8th due to reasons above

PENNSYLVANIA: Qualified (Provisionally) for the Provisional College Certificate valid only for teaching those industrial arts subjects written thereon providing proper concentration in technical courses is directed

Qualified (Provisionally) for the Standard Temporary Certificate valid for teaching only those subjects written thereon providing proper concentration in technical courses is directed

RHODE ISLAND: Unqualified because of the 400 clock hour (22½ semester hours) practice teaching residence requirement

SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standard for industrial arts teacher certifi-
cation used at present

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State

TEXAS: Qualified (Provisionally) for the Special 3 Year Certificate to teach industrial arts providing the 6 semester hour requirement in American Government is satisfied

Qualified (Provisionally) for the Special 4 Year Certificate to teach industrial arts with above proviso

Qualified (Provisionally) for the Special Permanent Certificate to teach industrial arts with above proviso

UTAH: Unqualified for the Class "A" 3 Year Certificate; directed registration necessary to meet specified subject requirements

VERMONT: Qualified for the General High School Teaching Certificate; at this time Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree

VIRGINIA: Qualified -- have required degree preparation that includes 12 semester hours of industrial arts training

WASHINGTON: Unqualified for lack of 45 quarter hours of graduate work

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack sufficient hours in academic, education, and technical preparation

WYOMING: Qualified

SUMMARY

Qualified -- 22 states
Unqualified -- 22 states

CURRICULUM SOURCE

Stout Institute
Menomonie, Wisconsin
FINDINGS
for the
STATE OF WYOMING *

ALABAMA: Unqualified for the Class "B" Secondary Professional Certificate for teaching industrial arts in the secondary schools; lack education and academic hours

ARIZONA: Unqualified for Special Certificate entitling the holder to teach industrial arts in grades 1-12 inclusive; lack preparation equal to four years industrial arts curriculum

ARKANSAS: Unqualified for the Industrial Arts Certificate valid for teaching industrial arts in any senior or junior high school in the State; lack a number of specified subject courses and hours in the industrial arts curriculum

CALIFORNIA: Unqualified for the Special Secondary Credential in Industrial Arts Education valid for teaching industrial arts subjects as indicated upon the credential; lack several specified subject courses - preparation not equal to four year industrial arts curriculum

COLORADO: Unqualified for the Graduate Temporary Certificate valid for teaching any subject including industrial arts in any school in Colorado; lack specified courses and hours in education

Unqualified for the Special Temporary Certificate valid for teaching only industrial arts; lack sufficient technical preparation in specified subjects

CONNECTICUT: Unqualified for the Special Certificate to teach industrial arts in the public schools, 50% or more time being devoted thereto; lack sufficient preparation technical subjects

Unqualified for the Limited Secondary Certificate for teaching industrial arts requiring less than half time; lack certain education and academic subjects

DELAWARE: Unqualified for the Special Branches Certificate valid for teaching manual or industrial education in all high schools; lack sufficient hours in specialized preparation

Unqualified for the Special Subject Certificate valid for teaching

* Includes holders of certificates based on graduation from the industrial arts curriculum at the University of Wyoming, Laramie, and valid for teaching industrial arts in Wyoming.
in both the high and elementary grades the subject "Fine and Industrial Arts"; lack certain education and technical courses

FLORIDA: Unqualified for the 2 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; preparation does not meet the necessary concentration of hours in subject group

Unqualified for the 4 Year Graduate State Certificate valid for teaching the individual industrial arts subject endorsed thereon; reason given above

GEORGIA: No certification data received and no industrial arts teacher preparation given as such

IDAHO: Unqualified for the State High School Certificate, a blanket affair, permitting the holder to teach any subject including industrial arts in grades 7-12 inclusive; lack prescribed curriculum and residence requirement of 12 semester hours or 6 week summer graduate course, plus courses in Idaho School Law and High School Course of Study

Unqualified for the State Specialists' Certificate valid for teaching only industrial arts; requirements set forth above

ILLINOIS: Qualified for the Limited State Special Certificate to teach industrial arts

INDIANA: Unqualified for the Special License valid in the high and elementary schools for teaching industrial arts; lack sufficient technical and education hours

Unqualified for the Regular Certificate or License valid for teaching industrial arts in the high, junior high, and 7-8 grades; reasons set forth above

IOWA: Unqualified for the Special Subject Certificate valid for teaching the subject or subjects in the field of industrial arts designated thereon in the grades and high schools; lack sufficient hours in Education and technical preparation

Unqualified for the Standard Secondary Certificate valid for teaching the preparation major (industrial arts) in the 7-8 grades and high school; reasons stated above

KANSAS: Unqualified for the Special Certificate to teach industrial arts in any school in the State; lack sufficient hours in academic and technical preparation

KENTUCKY: Qualified for permission to teach industrial arts as a major or minor subject
LOUISIANA: Qualified to teach industrial arts in the high schools

MAINE: Qualified for the Special Provisional Certificate the holder of which may teach the subject of industrial arts in both the high and elementary schools

Qualified for the First Provisional Professional Certificate, the regular secondary credential

MARYLAND: Unqualified for the Special Certificate to teach industrial arts; lack hours in certain technical courses

MASSACHUSETTS: Unqualified for teaching industrial arts in the high schools; lack sufficient hours to meet the technical, education and academic requirements

MICHIGAN: Unqualified for the State Secondary Provisional Certificate to teach industrial arts as a major subject; lack hours in education

MINNESOTA: Unqualified for the High School Standard Special Certificate to teach industrial arts in junior-senior, four-year, six-year high schools; lack sufficient hours to meet technical requirements

MISSISSIPPI: Certification requirements reported as being in process of change -- no data available at this time

MISSOURI: Unqualified for the First-Class High School Industrial Arts Specific Subject-matter Certificate; lack sufficient hours of concentration in technical preparation and hours in several other subjects

MONTANA: No preparation is given for the teaching of industrial arts in Montana and a three-year trade experience requirement would bar many teachers of industrial arts from out-of-state

NEBRASKA: Qualified for the Limited Secondary School Certificate valid for teaching major preparation (industrial arts) in grades 7-12 inclusive

NEVADA: Qualified for the Regular High School Certificate to teach in any high school in the State

NEW HAMPSHIRE: Unqualified -- requirements include graduation from industrial arts curriculum in high school and from trades and industries curriculum in college

NEW JERSEY: Unqualified -- ten-week practical experience requirement bars many out-of-state prepared industrial arts teachers

NEW MEXICO: Unqualified for the Special Certificate to teach industrial arts in any grade; lack certain work in education and must sa-
tisfy the six semester hours of residence and "Problems in New Mexico Education"

NEW YORK: Unqualified for the Provisional Certificate valid for teaching industrial arts; deficient hours in professional training

NORTH CAROLINA: Qualified for the High School Teachers' Certificate to teach industrial arts

NORTH DAKOTA: Qualified for the First Grade Professional Certificate to teach in any public school and for the Special Certificate to teach the subject named on the certificate

OHIO: Unqualified for the Industrial Arts Certificate requiring 40 semester major in that subject for lack of sufficient technical preparation

Unqualified for the Industrial Arts Certificate requiring a 16 semester hour minor in that subject; lack education and technical preparation

OKLAHOMA: Unqualified for the One Year Certificate based on two years of training and for special subjects only; lack certain courses in education, technical and academic fields

Unqualified for the Life Certificate based on four years of training and valid for special subjects only in industrial arts; reasons stated above

OREGON: Unqualified for the Special Certificate to teach the industrial arts subject or subjects named in such certificate; lack 15 quarter hours graduate work, credits in practice teaching, courses in education and Oregon History and School Law

Unqualified for the Standard Four-Year High School Certificate valid for teaching any subject (including the special subject of industrial arts) in the high schools and in junior high schools that include one or more grades above the 8th for above reasons

PENNSYLVANIA: Unqualified for the Provisional College Certificate valid for teaching only those industrial arts subjects written thereon; lack sufficient technical courses to meet subject hour concentration requirement

Unqualified for the Standard Temporary Certificate valid for teaching only those industrial arts subjects written thereon; reasons stated above

RHODE ISLAND: Unqualified because of 400 clock hour (223\frac{1}{2} semester hours) residence practice teaching requirement
SOUTH CAROLINA: Qualified to meet requirements of the Southern Accrediting Association, the standards for industrial arts teacher certification used at this time.

SOUTH DAKOTA: Qualified for the High School Special Certificate valid for teaching industrial arts in high school.

TENNESSEE: Qualified for the Professional High School Certificate with industrial arts endorsed thereon and valid for teaching that subject in the public schools of the State.

TEXAS: Qualified (Provisionally) for the Special 3 Year Certificate to teach industrial arts; providing the requirement of six semester hours in American Government is satisfied.

Qualified (Provisionally) for the Special 4 Year Certificate to teach industrial arts with above proviso.

Qualified (Provisionally) for the Special Permanent Certificate to teach industrial arts with above proviso.

UTAH: Unqualified for the Class "A" 3 Year Certificate; lack technical and industrial education specified subject requirements.

VERMONT: Qualified for the General High School Teaching Certificate; at present Vermont has no industrial arts teacher certification requirements beyond 12 semester hours in education and a degree.

VIRGINIA: Qualified -- have degree preparation which shall include 12 semester hours of industrial arts training.

WASHINGTON: Unqualified for lack of 45 quarter hours of graduate work.

WEST VIRGINIA: Unqualified for the Special Non-academic Certificate valid for teaching and supervising industrial arts subjects in the secondary and elementary grades; lack several courses in education, technical and academic fields.

WISCONSIN: Unqualified for lack of technical course hours and other subject deficiencies.

SUMMARY

Qualified -- 14 states
Unqualified -- 30 states
CURRICULUM SOURCE

University of Wyoming
Laramie, Wyoming
## Number and Relative Percentages of Qualifying States

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<th>Names of States</th>
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<th>Percentage of Total</th>
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* In which graduates of principal schools, as reported by State Departments of Education, are qualified,
NUMBER AND RELATIVE PERCENTAGES
of
QUALIFYING STATES
(Cont'd)

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<th>Names of States</th>
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<th>Percentage of Total</th>
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* In which graduates of principal schools, as reported by State Departments of Education, are qualified.
CHAPTER IV

CONCLUSIONS

To any student or teacher who has had occasion to migrate from one college or university to another, or from a position in a home state where educated, to work in another state, these findings may not come as a surprise. And yet, many school officials seem unaware or are indifferent to the fact that the curricula prescribed by them are far from adequate, particularly when viewed from the position of meeting other than immediate needs, as substantiated by the relatively low proportion of interstate certification opportunities.

It is quite possible that many readers of these results will believe them too pessimistic; that directed registration would remedy the deficiencies in many instances. This is undoubtedly true. But as the writer has hereinbefore pointed out, it has been necessary to treat the data in a generally objective manner and directed registration is nothing if not subjective. Evaluations have tended toward the positive wherever indefiniteness seemed to exist. For instance, a graduate of a curriculum qualified for one certificate and not another, in a given state, was given an affirmative count. Whenever qualification depended upon just one or two education course deficiencies, qualification was conceded, a notation being made that substitution would be necessary. This was thought to be desirable and permissible whenever the number of education courses available, differing perhaps in title but appearing alike in content, could probably be substituted and thereby satisfy re-
quirements of the state whose certificate was under consideration.

It must be remembered that, because of widely differing certification requirements, directed registration is possible only when a student points his education toward a certain goal, as toward the fulfillment of specific certification requirements of a given state. How many prospective teachers know beforehand that they may be obliged to go elsewhere to get a job? How many people knew before the Wall Street crash or the Mid-Western drought that they had best prepare for such eventualities?

No — directed registration will not entirely remedy the situation; nor will remedial measures taken separately by each state, unless there is definite correlation of objectives. The solution of this problem appears to be the placing of interstate certification upon a uniform base, if it is to function adequately. This is a matter that will require nationwide consideration and cooperation.

First should come recognition by all concerned as to what the uniform base should be. Possibly many will disagree as to the need or advisability of setting up uniform standards for industrial arts certification and preparation. And yet, if "healthy exchange of teachers among the States" is to become a reality, certainly some standardization of curricula, terminology, and basis of evaluation is necessary.

States having weak preparation facilities and difficult certification specifications will likely find themselves developing an inbred situation. This will come about because the difficult requirements will discourage migration from other states and act as a barrier to protect their own inadequately prepared product from the competition of
the more adequately prepared. Thus, each succeeding group so prepared will enter a field in which the personnel is steadily becoming weaker.

On the other hand, states having strong preparation and lower requirements compel their product to compete with students from states having weaker preparation. For example this situation exists between the neighboring states of Oregon and Washington. While the certification demands of Washington are more extensive than those of Oregon, the industrial arts teacher education program of Washington is not as highly developed as that of Oregon. Yet, the Washington product is able to meet the apparently weaker certification requirements of Oregon. Several other instances of similar situations could be cited if need be.

Surely it is possible to arrive at a balance of preparation and certification whereby both the school patrons and the teachers will be served. Is it too ridiculous to presume that a teacher of industrial arts in Oregon should have the same basic education courses preparation as one in Rhode Island, and visa versa, -- education courses of the same title, content, and credit hour value? With all due consideration for local conditions and needs, is it unwise to believe that the same basic certification requirements might be outlined for all sections of the United States? It would seem that the time has arrived when industrial arts teacher education curricula should assume a more definite and more uniform pattern, derived primarily from a single influence -- an optimal contribution to general education.

To quote from the introductory statement of United States Department of The Interior, Bulletin No. 19 - 1930, Accredited Higher Institutions:
"In spite of the growing criticism of the measurement of the work of institutions of higher learning by a set of formal standards, organizations representing various fields of higher education are more and more devoting their attention to the standardization of education in their respective fields. Accrediting by formal requirements may be an evil, but it appears to be a necessary one."

A study of the certification developments as regards industrial arts teachers, during the past six years, further substantiates the belief that the time is now at hand for the emerging of a definite industrial arts curriculum pattern. More than fifty per cent of the states have raised the certification requirements for industrial arts teachers since 1932. In many states professional education, academic and directed teaching subject-hours have been made a part of the specifications, thus indicating a definite inclination to raise the level of industrial arts education. Ten states increased their stipulations to include the bachelor's degree and two states now require graduate work. Inasmuch as certification and preparation were generally found to parallel quite closely in individual states, it is assumable that preparation has advanced in a correspondingly relative degree. This being true, it seems that now is the opportune time for a movement to direct this training, that it may not be misdirected. To stand by and allow this ever increasing industrial arts teacher preparation to continue as it has in the past is but adding to the confusion which now exists. Now seems to be the time for concerted action on the part of those who are directly interested and concerned. Those interested and concerned are the students in preparation, the teachers and administrators in the field, and the patrons of the public schools. Certainly the rapid developments in
the certification requirements of industrial arts teachers is founded on a changing understanding and regard for this type of education.

The following quotations, coupled with the advances in certification requirements, are some of the indications that this problem is receiving nationwide recognition:

"Industrial Education has undergone a number of significant changes in recent years. These changes involve terminology, philosophy, procedures, or practices and methods of instruction. Modern schools are modifying their curricula to include a variety of the arts of industry; consequently, there is a growing demand for a more versatile industrial teacher than was demanded under the old manual training regime."¹

"The preparation of qualified teachers of Industrial Arts subjects is an essential problem of our Public School Program. Our supply of teachers is less than the demand. This makes it necessary to seek candidates of institutions in other States for positions in North Carolina Schools."²

"To meet the steadily increasing demand for teachers of industrial arts, the Department of Industrial Engineering and Shops has, in co-operation with the School of Education, set up courses for the professional preparation of such teachers."³

SUGGESTIONS FOR FURTHER STUDY:—There has been projected a plan for the study of Industrial Arts Teacher Education in The United States. This plan in its entirety embraces three phases. First: a study of interstate certification, which is the function of this pre-

¹ Pittsburg State Teachers' College Bulletin, Pittsburg, Kansas -- 1937
² North Carolina State College of Agriculture and Engineering, Raleigh, North Carolina -- Catalog 1936-37
³ Alabama Polytechnic, Auburn, Alabama -- Catalog 1937-38
sent investigation. Second: a study of curricula, which is being undertaken as a companion thesis study by Mr. Elliott Hutton. Third: a study to formulate a plan of unification. This phase is open as a problem for further consideration.

Some suggestions for further study are:

A study of teacher migration from state to state as a basis for formulating a plan of reciprocal certification

A study to determine a basis for the selection and recommendation of certain industrial arts teacher education institutions with a view to the development of regional centers of education which, by virtue of the greater concentration of candidates, will justify the development of stronger staffs and physical plants. In view of conditions disclosed in the present study it seems highly improbable that strong teacher education programs can be provided for industrial arts within the limits of financial support warranted by the small enrollments resulting from unnecessary duplication of training centers as exists in many states.

Additional investigations, similar to the current one, covering the angles of certification and curricula at least every five years, more often if circumstances require, in order that existing conditions may be known.
APPENDIX "A"

SUMMARY of CERTIFICATION REQUIREMENTS AND PREPARATION of the TERRITORIES AND POSSESSIONS
APPENDIX "A"

SUMMARY of CERTIFICATION REQUIREMENTS AND PREPARATION in the TERRITORIES AND POSSESSIONS

ALASKA: "Replying to your circular letter of October 17th, will say that most of our high schools are accredited by the Northwest Association of Secondary and Higher Schools and that the teacher of industrial arts must have at least a minor in that subject. I might say, however, that most teachers of this subject have majors in this subject with a great many hours."

This is an excerpt from a letter written by Mr. Anthony E. Karnes, Commissioner of Education, Territory of Alaska, Juneau.

The University of Alaska has no Department of Industrial Education nor does it offer any industrial courses.

AMERICAN SAMOA: No reply was received from this possession.

CANAL ZONE: "Senior high school teachers of commercial subjects and shop work must hold a Bachelor's degree and submit an official transcript covering four years of college work, showing that applicant has specialized in the subject he expects to teach."

The above excerpt is from a leaflet entitled "The Panama Canal, Executive Department - Division of Schools, Circular of Information for Applicants for Teaching Positions."

"We do not have a teacher training institution in the Canal Zone."

Excerpt from a letter from Mr. Ben M. Williams, Superintendent of Schools, The Panama Canal Zone.
GUAM: "That under the present set-up in which we have only simple handicraft work (fish-net weaving, cooking, sewing, fibre weaving and carpentry) we use local craftsmen who are experts at the work but who are not required to meet a requirement beyond their craftsmanship, ability to handle children, and character."

"We do not have any institutions which are high enough to name standards and force their acceptance."

"Education for the great majority ends at the 6th grade, about one-third of the 6th grade graduates being selected for Junior High School instruction. Vocational instruction as known in the United States does not apply in Guam."

The above paragraphs are excerpts from a letter from M. C. H. Mansfield, Head of Department of Education, The Naval Government of Guam.

HAWAII: "I wish to state that to be eligible for certification to teach industrial arts in Hawaii a teacher must be a graduate of a standard college with a major in the industrial arts field. In a few specialized fields such as industrial arts, music and physical education, people with four years of college work are certificated. In all other fields, five years of college work is a pre-requisite to certification."

"At the present time the University of Hawaii does not offer courses qualifying people to meet these standards."

A letter from Mr. Harvey L. Freeland, Assistant Superintendent for Vocational Education, Department of Public Instruction, Territory of Hawaii, Honolulu, contains the above paragraphs.

PHILIPPINE ISLANDS: "Teachers of industrial arts are required to graduate from the Teachers' Course at the Philippine School of Arts and Trades. The appointment given is temporary until they qualify in a civil service examination as junior or senior industrial arts teachers."
"The only institution offering professional training for industrial arts teachers is the Philippine School of Arts and Trades. The entrance requirement of this school is completion of the secondary school course either in academic, agriculture or trade. Trade course graduates can usually finish the course in two years. Students who have not finished the trade course are required to stay in school an additional year in order to give them more practice in the shop."

These paragraphs are excerpts from a letter written by Mr. Cledonio Salvador, Director of Education, Bureau of Education, Department of Public Instruction, Commonwealth of the Philippines, Manila.

PUERTO RICO: "The certificate of senior teacher of manual arts valid for working in elementary and in secondary schools, shall be granted to those persons who, in addition to the requirements mentioned in section 3 of this Act, shall present evidence of fulfilling the following:

1 Graduation from the four-years' course for the training of senior teachers of manual arts offered by the University of Porto Rico; or

2 Graduation from the course in civil engineering or mechanical engineering at the College of Agriculture and Mechanic Arts of the University of Porto Rico, or from a similar course in any college or university accredited by the University of Porto Rico, with the degree of Bachelor in Science, Civil Engineer or Mechanical Engineer; providing the applicant shall have passed the following subjects or their equivalent:

- Introduction to Education...... 3 semester hours
- Educational Psychology............. 3 semester hours
- Vocational Psychology............. 6 semester hours
  (Special emphasis on manual arts)
- Secondary Education............. 6 semester hours"

The above is an excerpt from "(No. 29) An Act To Regulate the Certification of Teachers, Principals and Superintendents of Schools to Work in the Public Schools of Porto Rico, and for other Purposes."
VIRGIN ISLANDS: "With regard to your first question I should like to state that we have no specific requirements for the teachers of industrial arts in St. Croix. According to the school law under which we work at present the Superintendent of Education is empowered to issue licenses to candidates who possess diplomas from high schools, academies, colleges, normal schools or universities and to candidates who are able to present convincing evidence that they are fitted to teach special and authorized subjects."

"In answer to your second question I would like to state that at present we have no institution offering teacher education in industrial work. There is one institution, however, which does give industrial training in this island and that is the Vocational Institute at the Agricultural Experiment Station at Anna's Hope. The training given here is limited to subjects connected with agriculture. A number of the graduates of this institution have been engaged by this Department to teach in the rural schools for one of their chief responsibilities is the direction of the school garden."

This is an excerpt from a letter from Mr. A. Thurston Child, Superintendent of Education, Department of Education, Government of The Virgin Islands of the United States, Christiansted, St. Croix."
APPENDIX "B"

FACSIMILE OF LETTER

to

STATE OFFICIALS
My dear Mr. Collins:

Because of its value to State Departments of Education, to certificating agencies, and to teacher education centers, a comparative study of the interstate certification opportunities for industrial arts teachers in the United States has been proposed. Such a study would logically include a comparison of certification requirements in the several states and territories and of the provisions in them for the preparation of industrial arts teachers.

Believing that you would be willing to cooperate in this study I should like to have you furnish the following information relative to the State of Alabama:

1. What are the general and specific certification requirements for the teaching of industrial arts in your secondary schools.

2. Which of your institutions offering teacher education will meet these requirements.

A report of the study will be made available to all participants, either in the form of a mimeographed summary or a more complete statement in one of the education journals. We believe the study will merit the small amount of time required for your report. Your cooperation will be appreciated.

Approved:

Respectfully yours,

Geo. B. Cox, Head
Industrial Education
Department

Alfred T. Allen, Coordinator
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Canal Zone Executive Department, Division of Schools. Circular of Information for Applicants for Teaching Positions, Balboa Heights, 1938.


LETTERS FROM STATE OFFICIALS


California: Evelyn Clement, Head, Teacher Training, Department of Education, Sacramento, October 22, 1938.

Connecticut: A. G. Grace, Commissioner of Education, State of Connecti-
Connecticut, Hartford, October 26, 1938.

Florida:— Joe Hall, Supervisor of Certification, Department of Education, Tallahassee, October 25, 1938.

Georgia:— M. D. Collins, Superintendent of Schools, Department of Education, Atlanta, November 28, 1938.

Idaho:— Douglas Hiltz, Certification Clerk, Department of Education, Boise, October 27, 1938.


Iowa:— Russell E. Jones, Executive Secretary, Board of Educational Examiners, Des Moines, October 24, 1938.

Kansas:— Louie Leslie, Secretary, Department of Education, Topeka, October 24, 1938.

Kentucky:— R. E. Jaggers, Director, Certification, Department of Education, Frankfort, October 25, 1938.

Louisiana:— J. E. Lombard, Director of Certification, Department of Education, Baton Rouge, October 24, 1938.


Walter E. Russell, Principal, State Normal School, Gorham, January 9, 1939.


Massachusetts:— James G. Reardon, Commissioner of Education, Department of Education, Boston, October 25, 1938.

Michigan:— Barbara L. Smith, Assistant Director of Certification, Department of Education, Lansing, October 25, 1938.


Mississippi:— J. S. Vandiver, Superintendent, Department of Education, Jackson, January 13, 1939.

Missouri:- Wade G. Fowler, Chief Clerk, Department of Education, Jefferson, October 22, 1938.

Nebraska:- W. A. Rosene, Director of Certification, Department of Public Instruction, Lincoln, October 20, 1938.

Nevada:- Pearl M. Elstner, Certification Clerk, Department of Education, Carson City, November 17, 1938.


New Jersey:- William A. Ackerman, Secretary, State Board of Examiners, Department of Public Instruction, Trenton, October 31, 1938.

New York:- Herman Cooper, Assistant Commissioner for Teacher Education, University of the State of New York, Albany, November 12, 1938.

Lewis A. Wilson, Associate Commissioner for Vocational Education, University of the State of New York, Albany, December 9, 1938.

Herman Cooper, Assistant Commissioner for Teacher Education, University of the State of New York, Albany, December 14, 1938.

North Carolina:- James E. Hillman, Director of Professional Service, Department of Public Instruction, Raleigh, November 3, 1938.

Ohio:- Harold J. Bowers, Supervisor of Certification, Department of Education, Columbus, October 26, 1938.

Oklahoma:- L. Norman Duncan, Executive Secretary, State Board of Education, Oklahoma City, October 24, 1938.

Oregon: Rex Putnam, Superintendent of Public Instruction, Salem, October 28, 1938.

Pennsylvania:- C. O. Williams, Assistant Director, Teacher Education and Certification, Department of Education, Harrisburg, October 25, 1938.


Tennessee:- G. E. Freeman, Supervisor, Vocational Agriculture, Department of Education, Nashville, November 22, 1938.

Texas:- Irma Deane Fowler, Secretary, Board of Examiners, Department of Education, Austin, October 24, 1938.

Utah:- A. C. Matheson, Chairman, Certification Committee, Department
of Public Instruction, Salt Lake, October 20, 1938.


Washington:—Andrew Elwick, Deputy Superintendent, Department of Education, Olympia, October 25, 1938.

Wisconsin:—John Callahan, State Superintendent, Department of Public Instruction, Madison, October 21, 1938.


Hawaii:—Harvey L. Freeland, Assistant Supervisor, Vocational Education, Department of Public Instruction, Honolulu, November 5, 1938.


Guam:—G. H. Mansfield, Head, Department of Education, Guam, November 17, 1938.

Puerto Rico:—Nestor I. Vincenty, Acting Commissioner, Department of Education, San Juan, November 18, 1938.

Philippine Islands:—Celedonio Salvador, Director of Education, Department of Public Instruction, Manila, November 22, 1938.

Canal Zone:—Ben M. Williams, Superintendent of Schools, Balboa Heights, November 1, 1938.

INSTITUTIONAL CATALOGUES

Alabama Polytechnic, Auburn 1937-38
Arizona State Teachers' College, Tempe 1936-39
Arizona State Teachers' College, Flagstaff 1936-37
Arkansas, University of, Fayetteville 1937-38
California, Chico State College  1937-38

San Jose State College  1937-38

Santa Barbara State College  1937-38

Colorado State College of Education, Greeley  1938-39

Colorado State College of Agriculture and Mechanic Arts, Fort Collins  1938-39

Colorado, Western State College, Gunnison  1938-39

Connecticut Teachers' College, New Britain  1936-37

Delaware University, Newark  1937-38

Florida, University of, Gainsville  1938-39

Georgia School of Technology, Atlanta  1938-39

Georgia, University of, Athens  1937-38

Idaho University, Moscow  1937-38

Idaho College, Caldwell  1937-38

Illinois, Bradley Polytechnic, Peoria  1938-39

Indiana State Teachers' College, Terrehaute  1936-37

Iowa State College, Ames  1938-39

Iowa, Cedar Falls State Teachers' College, Cedar Falls  1937-38

Kansas State Teachers' College, Pittsburg, Kansas  1936-37

Kentucky University, Lexington  1937-38

Kentucky, Western State Teachers' College, Bowling Green  1937-38

Louisiana State University, University  1938-39

Tulane University, New Orleans  1937-38

Maryland University, Baltimore  1937-38

Massachusetts State Teachers' College, Fitchburg  1937-38

Michigan State Normal College, Ypsilanti  1938
Michigan, Wayne University, Detroit 1937-38
Minnesota, University of, Minneapolis 1936-38
Mississippi State College, State College 1936-37
Missouri, University of, Columbia 1937-38
Missouri, Northeast State Teachers' College, Kirksville 1936-38
Montana University and State College, Bozeman 1937-38
Nebraska, University of, Lincoln 1936-37
Nebraska State Normal School, Chadron 1935-36
Nevada, University of, Reno 1936-39
New Hampshire, University of, Durham 1938-39
New Jersey State Teachers' College, Trenton 1938-39
New Jersey State Teachers' College, Newark 1937-38
New Mexico Normal University, Las Vegas 1937-38
New York, The University of, Albany 1938
New York State Teachers' College, Buffalo 1938-39
Oswego State College, Oswego 1938-39
North Carolina Agricultural and Mechanical College, Raleigh 1936-37
North Dakota, University of, Grand Forks 1936-37
Ohio State University, Columbus 1938-39
Ohio, University of, Athens 1936-37
Oklahoma, University of, Norman 1938-39
Oregon State College, Corvallis 1938
Pennsylvania State College, State College 1937-38
Rhode Island State College, Kingston 1937
Rhode Island College of Education, Providence 1938-39
South Carolina, Clemson Agricultural College, Clemson College 1936-37

South Dakota Agricultural and Mechanic Arts College, Brookings 1936-37

Tennessee, University of, Knoxville 1936-37

Texas Technological College, Lubbock 1935-36

Texas, Sam Houston State Teachers' College, Huntsville 1937-38

Utah Agricultural College, Logan 1937-38

Vermont State University and Agricultural College, Burlington 1937-38

Virginia Polytechnic Institute, Blacksburg 1938

Washington State College, Pullman 1938

West Virginia, University of, Morgantown 1937-38

Wisconsin, Stout Institute, Menomonie 1938-39

Wyoming, University of, Laramie 1938

University of Alaska, College, Alaska 1938-39

UNPUBLISHED THERSES

Anderson, Carl L. Certification of Industrial Arts Teachers, Ohio State University, Columbus, Ohio. M. A. 1932.

Dougherty, Vivian C. State Certification Requirements for Industrial Arts Teachers of The United States, Indiana University, Bloomington. M. S. 1933.

Manning, Lionel W. The Inter-relation of Teacher Training, Salary Schedules, State Certification, and Advancement of Method for Industrial Arts in The Secondary Schools, Oregon State College, Corvallis. M. S. 1931