

DEPARTMENT OF EDUCATION
PROFESSIONAL STANDARDS BOARD

Statutory Authority: 14 Delaware Code, Section 1205(b) (14 **Del.C.** §1205(b))
14 **DE Admin. Code** 1559

PROPOSED

Educational Impact Analysis Pursuant To 14 Del.C. Section 122(d)

1559 Trade and Industrial Education Teacher

A. Type of Regulatory Action Requested

Amendment to Existing Regulation

B. Synopsis of Subject Matter of Regulation

The Professional Standards Board, acting in cooperation and collaboration with the Department of Education, seeks the consent of the State Board of Education to amend regulation 14 **DE Admin. Code** 1559 Trade and Industrial Education Teacher. The title Trade and Industrial Education Teacher is being amended to Skilled and Technical Sciences Teacher to reflect current national titling trends in the Career and Technical area. The regulation concerns the requirements for certification of educational personnel, pursuant to 14 **Del.C.** §1220(a). This Skilled and Technical Sciences Teacher regulation is being amended into the new Standard Certificate format and to align the certificates with the Specific Career Areas of certification. This regulation sets forth the requirements for a Skilled and Technical Sciences Teacher.

Persons wishing to present their views regarding this matter may do so in writing by the close of business on Monday December 1, 2008 to Mr. Charlie Michels, Executive Director, Delaware Professional Standards Board, The Townsend Building, 401 Federal Street, Dover, Delaware 19901. Copies of this regulation are available from the above address or may be viewed at the Professional Standards Board Business Office.

C. Impact Criteria

1. Will the amended regulation help improve student achievement as measured against state achievement standards? The amended regulation addresses student achievement by establishing standards for the issuance of a standard certificate to educators who have acquired the prescribed knowledge, skill and/or education to practice in a particular area, to teach a particular subject or to instruct a particular category of students to help ensure that students are instructed by educators who are highly qualified.

2. Will the amended regulation help ensure that all students receive an equitable education? The amended regulation helps to ensure that all teachers employed to teach students meet high standards and have acquired the prescribed knowledge, skill and/or education to practice in a particular area, to teach a particular subject or to instruct a particular category of students.

3. Will the amended regulation help to ensure that all students' health and safety are adequately protected? The amended regulation addresses educator certification, not students' health and safety.

4. Will the amended regulation help to ensure that all students' legal rights are respected? The amended regulation addresses educator certification, not students' legal rights.

5. Will the amended regulation preserve the necessary authority and flexibility of decision-makers at the local board and school level? The amended regulation will preserve the necessary authority and flexibility of decision makers at the local board and school level.

6. Will the amended regulation place unnecessary reporting or administrative requirements or mandates upon decision makers at the local board and school levels? The amended regulation will not place unnecessary reporting or administrative requirements or mandates upon decision makers at the local board and school levels.

7. Will decision making authority and accountability for addressing the subject to be regulated be placed in the same entity? The decision-making authority and accountability for addressing the subject to be regulated rests with the Professional Standards Board, in collaboration with the Department of Education, and with the consent of the State Board of Education.

8. Will the amended regulation be consistent with and not an impediment to the implementation of other state educational policies, in particular to state educational policies addressing achievement in the core academic subjects of mathematics, science, language arts and social studies? The amended regulation will be consistent with, and not an impediment to, the implementation of other state educational policies, in particular to state educational policies addressing achievement in the core academic subjects of mathematics, science, language arts and social studies.

9. Is there a less burdensome method for addressing the purpose of the amended regulation? 14 **Del.C.** requires that we promulgate this regulation.

10. What is the cost to the state and to the local school boards of compliance with the adopted regulation? There is no additional cost to local school boards for compliance with the regulation.

1559 Trade and Industrial Education Teacher

1.0 Content

- 1.1 ~~This regulation shall apply to the requirements for a Standard Certificate, pursuant to 14 **Del.C.** §1220(a), for Trade and Industrial Education Teacher.~~

2.0 Definitions

~~The following words and terms, when used in this regulation, shall have the following meaning unless the context clearly indicates otherwise:~~

~~“**Current Trade Experience**” means successful, full time employment within the last ten years in an occupation directly related to the specific occupational area to be taught.~~

~~“**Department**” means the Delaware Department of Education.~~

~~“**Department Approved**” means approved by the Department of Education in consultation with DOE’s supervisor for Trade and Industrial Education.~~

~~“**License**” means a credential which authorizes the holder to engage in the practice for which the license is issued.~~

~~“**Standard Certificate**” means a credential issued to certify that an educator has the prescribed knowledge, skill, or education to practice in a particular area, teach a particular subject, or teach a category of students.~~

~~“**Two Years of College or Technical Training**” means a minimum of a high school diploma or its recognized equivalent and the satisfactory completion of the requirements for any one, or an appropriate combination, of the following options in the occupational area to be taught equaling (1) an associate’s degree with a major in the specific occupational area to be taught; (2) two years of college majoring in the specific occupational area to be taught with at least 50% of the major courses required for a bachelor’s degree satisfactorily completed; (3) a state issued certificate indicating completion of apprenticeship hours and apprentice related training (e.g. journey papers); (4) four years of sequential Delaware Trade Extension courses; (5) four years of National Center for Construction Education and Research’s *Contron* documented training; (6) nine high school credits of career and technical high school training; (7) passage of the State of Delaware Licensing Test, offered through the Division of Professional Regulation; (8) 576 hours of military training; (9) 576 hours postsecondary trade school training; (10) completing the written and performance teacher tests for the National Occupational Competency Testing Institute at or above the minimum score set by the Department; (11) industry recognized certification of technical competence or journey person status, or (12) DOE approved equivalents.~~

3.0 ~~Standard Certificate~~

In accordance with ~~14 Del.C. §1220(a)~~, the Department shall issue a Standard Certificate as a Trade and Industrial Education Teacher (required for grades 9 to 12, and valid in grades 7 to 8 in a middle-level school) to an applicant who holds a valid Delaware Initial, Continuing, or Advanced License; or Standard or Professional Status Certificate issued by the Department prior to August 31, 2003, and who meets the following requirements:

3.1 ~~Professional Education~~

3.1.1 ~~Bachelor's degree from a regionally accredited college or university in the occupational area to be taught and two (2) years of current trade experience in the area to be taught; and~~

3.1.1.1 ~~Required Courses: 24 semester hours of course work, taken either as part of a degree program or in addition to it, from the following:~~

3.1.1.1.1 ~~Educational Psychology or Human Development;~~

3.1.1.1.2 ~~Career Technical Education Assessment and Course Construction;~~

3.1.1.1.3 ~~Methods of Teaching Career Technical Education I or Materials and Approaches to Career Technical Education I;~~

3.1.1.1.4 ~~Methods of Teaching Career Technical Education II or Materials and Approaches to Career Technical Education II;~~

3.1.1.1.5 ~~Introduction to Education of Exceptional Children;~~

3.1.1.1.6 ~~Behavior management or Classroom Management;~~

3.1.1.1.7 ~~Instructional Technology; and~~

3.1.1.1.8 ~~Multicultural Education or Diversity in the Classroom; and~~

3.1.1.2 ~~Required Electives: 12 semester hours of college-level course work, taken either as part of a degree program or in addition to it, or the equivalent of 12 semester hours of documented industry or skills training, or a combination thereof, taken to assist the teacher in maintaining current craftsmanship and teaching skills in the vocational area covered by the license that include:-~~

3.1.1.2.1 ~~Student Organizations in the Curriculum;~~

3.1.1.2.2 ~~History and Regulations of Career Technical Education;~~

3.1.1.2.3 ~~Student Testing and Evaluation;~~

3.1.1.2.4 ~~Education of Exceptional Children (at a level above any previous course work)~~

3.1.1.2.5 ~~Career Technical Guidance;~~

3.1.1.2.6 ~~DOE approved apprenticeship, military, or trade school and extension courses appropriate to the area taught or National Occupational Competency Testing (NOCTI) Written and Performance Tests or DOE approved industry certification;~~

3.1.1.2.7 ~~National Center for Construction Education and Research (NCCER) Instructor Certification course or DOE approved Instructor's Certification course(s);~~

3.1.1.2.8 ~~DOE approved test based Professional Municipal License;~~

3.1.1.2.9 ~~DOE approved test based Professional Municipal License Preparation course; or~~

3.1.1.2.10 ~~College courses in the occupational area to be taught; or~~

3.1.2 ~~Associate's degree from a regionally accredited college or university in the occupational area to be taught and four (4) years of current trade experience in the area to be taught; and~~

3.1.2.1 ~~Required Courses: 24 semester hours of course work, taken either as part of a degree program or in addition to it, from the following:~~

3.1.2.1.1 ~~Educational Psychology or Human Development;~~

3.1.2.1.2 ~~Career Technical Education Assessment and Course Construction;~~

3.1.2.1.3 ~~Methods of Teaching Career Technical Education I or Materials and Approaches to Career Technical Education I;~~

3.1.2.1.4 ~~Methods of Teaching Career Technical Education II or Materials and Approaches to Career Technical Education II;~~

- 3.1.2.1.5 Introduction to Education of Exceptional Children;
- 3.1.2.1.6 Behavior Management or Classroom;
- 3.1.2.1.7 Instructional Technology; and
- 3.1.2.1.8 Multicultural Education or Diversity in the Classroom; and
- 3.1.2.2 Required Electives: 12 semester hours of college-level course work, taken either as part of a degree program or in addition to it, or the equivalent of 12 semester hours of documented industry or skills training, or a combination thereof, taken to assist the teacher in maintaining current craftsmanship and teaching skills in the career technical area covered by the certificate that include:
 - 3.1.2.2.1 Student Organizations in the Curriculum;
 - 3.1.2.2.2 History and Regulations of Career Technical Education;
 - 3.1.2.2.3 Student Testing and Evaluation;
 - 3.1.2.2.4 Education of Exceptional Children (at a level above any previous course work)
 - 3.1.2.2.5 Career Technical Guidance;
 - 3.1.2.2.6 DOE approved apprenticeship, military, trade school or extension courses appropriate to the area taught or National Occupational Competency Testing (NOCTI) Written and Performance Tests or DOE approved industry certification;
 - 3.1.2.2.7 National Center for Construction Education and Research (NCCER) Instructor Certification course or DOE approved Instructor's Certification course(s);
 - 3.1.2.2.8 DOE approved test based Professional Municipal License;
 - 3.1.2.2.9 DOE approved test based Professional Municipal License Preparation course; or
 - 3.1.2.2.10 College courses in the occupational area to be taught; or
- 3.1.3 Two (2) years of college or technical training, plus 6 years of current trade experience in the area to be taught; and
 - 3.1.3.1 Completion of a DOE approved Trade and Industrial teacher education associate's or bachelor's degree program; or
 - 3.1.3.2 Required Courses 24 semester hours of course work from the following:
 - 3.1.3.2.1 Educational Psychology or Human Development;
 - 3.1.3.2.2 Career Technical Education Assessment and Course Construction;
 - 3.1.3.2.3 Methods of Teaching Career Technical Education I or Materials and Approaches to Career Technical Education I;
 - 3.1.3.2.4 Methods of Teaching Career Technical Education II or Materials and Approaches to Career Technical Education II;
 - 3.1.3.2.5 Introduction to Education of Exceptional Children;
 - 3.1.3.2.6 Behavior Management or Classroom Management;
 - 3.1.3.2.7 Instructional Technology; and
 - 3.1.3.2.8 Multicultural Education or Diversity in the Classroom; and
 - 3.1.3.3 Required Electives: 12 semester hours of college level course work or industry training or skills documentation to assist the teacher in maintaining current craftsmanship and teaching skills in the vocational area covered by the license that include:
 - 3.1.3.3.1 Career Technical Student Organizations in the Curriculum;
 - 3.1.3.3.2 History and Regulations of Career Technical Education;
 - 3.1.3.3.3 Student Testing and Evaluation;
 - 3.1.3.3.4 Education of Exceptional Children (at a level above any previous course work);
 - 3.1.3.3.5 Career and Technical Guidance;
 - 3.1.3.3.6 DOE approved apprenticeship, military, or trade school and extension courses appropriate to the area taught or National Occupational Competency Testing (NOCTI) Written and Performance Tests or DOE approved industry certification;

- 3.1.3.3.7 National Center for Construction Education and Research (NCCER) Instructor Certification course or DOE approved Instructor's Certification course(s);
- 3.1.3.3.8 DOE approved test based Professional Municipal License;
- 3.1.3.3.9 DOE approved test based Professional Municipal License Preparation course; or
- 3.1.3.3.10 College courses in the occupational area to be taught; and
- 3.1.3.4 Required General Education: 15 semester hours of general preparation from a regionally accredited college or university, with at least one course in each of the following area:
 - 3.1.3.4.1 Science;
 - 3.1.3.4.2 Mathematics;
 - 3.1.3.4.3 Social Studies;
 - 3.1.3.4.4 English Communications; and
 - 3.1.3.4.5 Computer Literacy.
- 3.2 Skilled Trade Experience
 - 3.2.1 A minimum of six years of successful, full time work training experience, at least two years of which must have been within the last ten years, in the trade or industrial occupation to be taught. Full time teaching or direct supervision in the trade or industrial occupation qualifies as current work experience, provided the applicant has at least six (6) years of successful, full time prior work training experience.
- 3.3 Professions and Occupations License:
 - 3.3.1 In trade or industrial occupations where a state license or registration is required by law, all applicants, except applicants for electrician's or plumber's trade and industrial certification must present a valid and current Delaware license or registration upon application for a standard certificate. Applicants for an electrician's or a plumber's trade and industrial certification must present a valid and current Delaware license as part of completing certification requirements. The state license or registration must be renewed as required by law.

7 DE Reg. 1751 (6/1/04)

1559 Skilled and Technical Sciences Teacher

1.0 Content

- 1.1 This regulation shall apply to the issuance of a Standard Certificate, pursuant to 14 Del.C. §1220(a) for Skilled and Technical Sciences Teacher in a Specific Career Area. This certification is required for grades 9 to 12, and for grades 6 to 8 in a Middle Level school. Certificates issued are in the specific career area and qualified educators may become certified for more than one specific career area, however no general Skilled and Technical Sciences certification exists.
- 1.2 Except as otherwise provided, the requirements set forth in 14 DE Admin. Code 1505 Standard Certificate, including any subsequent amendment or revision thereto, are incorporated herein by reference.

2.0 Definitions

- 2.1 The definitions set forth in 14 DE Admin. Code 1505 Standard Certificate, including any subsequent amendment or revision thereto, are incorporated herein by reference.
- 2.2 The following words and terms, when used in this regulation, shall have the following meaning unless the context clearly indicates otherwise:
 - "Career and Technical Education"** is also known as Vocational Education, Vocational Technical Education or Career Technical Education.
 - "HVAC"** means Heating, Ventilation, and Air-Conditioning.
 - "Nine (9) Career-Related Credits"** means nine (9) college credits or an equivalent number of hours in professional development, technical training or certification, with one (1) credit equating to fifteen (15)

hours taken either as part of a degree program or in addition to it, from a regionally accredited college or university, or a professional development provider approved by the employing school district or charter school. These credits may also be earned through a certified or licensed technical training provider or through specified technical training or verification of the equivalent knowledge and training by technical certification as specified in the Department's current Skilled and Technical Sciences Standards in the Specific Career Area Program Certification Requirements (See 14 DE. Admin Code 525 Requirements for Career and Technical Education Programs).

"Six (6) Career and Technical Education Pedagogy Credits" means six (6) college credits taken either as part of a degree program or in addition to it, from a regionally accredited college or university from the following content areas:

- Methods of Teaching Career and Technical Education I, or Career and Technical Education Materials and Approaches I; and
- Career and Technical Student Organizations, or Career and Technical Education Materials and Approaches II.

"Specific Career Area" means a specific career area approved by the Department as a Career Technical Education Program and included in the Department's Skilled and Technical Sciences Standards. Examples include but are not limited to the following: Automotive/Automotive Mechanical Technology/Technician; Autobody/Collision and Repair Technology/Technician; Carpentry/Carpenter; Child Care Provider/Assistant; Cosmetology/Cosmetologist, General; Dental Laboratory Technology/Technician; Electrician; HVAC-R Maintenance Technology; Licensed Practical/Vocational Nurse Training; Mason/Masonry; Medical/Clinical Assistant; Nurse/Nursing Assistant and Patient Care Assistant; Plumbing Technology/Plumber; Sheet Metal Technology/Sheetworking; and Welding Technology/Welder.

"Specific Career Area Program Certification Requirements" means educator requirements necessary to achieve Department approval of the Career Technical Education program. (See 14 DE Admin. Code 525 Requirements for Career and Technical Education Programs).

"Skilled and Technical Sciences (STS)" is also known as Trade and Industrial Education, Career and Technical Education, Career Technical Education or Career-Technical Education.

"Teacher of Trade and Industries" means a Skilled and Technical Sciences Teacher.

"Two Years of College or Technical Training" means a minimum of a high school diploma or its recognized equivalent and the satisfactory completion of the requirements for any one, or an appropriate combination of the following options in the specific career area of certification equaling (1) an Associate's degree with a major in the specific career area; (2) two years of college majoring in the specific career area with at least 50% of the major courses required for a bachelor's degree satisfactorily completed; (3) a state issued certificate indicating completion of apprenticeship hours and apprentice related training (e.g. journey papers) in the specific career area; (4) completion of four years of sequential Delaware Trade Extension courses in the specific career area; (5) completion of four years of National Center for Construction Education and Research's *Contren* documented training in the specific career area; (6) a 70% or above score on both the written and performance elements of a Delaware Apprentice-related Education Provider's National Center for Construction Education and Research's *Contren*-derived full Apprentice Equivalency test-out covering all Apprentice-related Education years in the specific career area; (7) passage of a State of Delaware Licensing Test in the specific career area, offered through the Division of Professional Regulation; (8) 576 hours of military training in the specific career area; (9) 576 hours post-secondary trade school training in the specific career area; (10) a 70% or above score on both the written and performance teacher tests for the National Occupational Competency Testing Institute in the specific career area; (11) an industry recognized certification of technical competence or journeyperson status in the specific career area, or (12) DOE approved equivalents.

"Vocational Trade and Industry Area" means Skilled and Technical Sciences Area.

"Work Experience" means full time employment or work training experience in the specific Skilled and Technical Sciences career area of certification. An educator may substitute an Associate's degree in the specific Skilled and Technical Sciences career area of certification for a maximum of one (1)

year of work experience or a Bachelor's degree in the specific Skilled and Technical Sciences career area of certification for a maximum of two (2) years of work experience. The educator may only substitute one degree for a maximum of two years work experience credit and may not use two Associates degrees to equal two years of work experience.

3.0 Standard Certificate

- 3.1 In accordance with 14 **Del.C.** §1220(a) the Department shall issue a Standard Certificate as a Skilled and Technical Sciences Teacher of a specific career area to an educator who has met the following:
 - 3.1.1 Holds a valid Delaware Initial, Continuing, or Advanced License; or a Limited Standard or Standard Certificate issued by the Department prior to August 31, 2003; and
 - 3.1.2 Has met the requirements as set forth in 14 **DE Admin. Code** 1505 Standard Certificate, with the exception of the requirement of a Bachelors degree in 3.1.5, including any subsequent amendment or revision thereto; and
 - 3.1.3 Has satisfied the additional requirements in this regulation including holding a Bachelors degree or the completion of education and training equivalent to a Bachelors degree as specified in this regulation.

4.0 Educational Requirements

An educator shall also have met the following:

- 4.1 Satisfactorily completed nine (9) Career-Related Credits related to their area of certification and six (6) Career and Technical Education Pedagogy credits; and
- 4.2 **Bachelor's Degree:**
Holds a Bachelor's degree from a regionally accredited college or university in any content area; or
- 4.3 **Equivalent of a Bachelors Degree:**
Acquired the knowledge and training equivalent to a Bachelor's Degree by meeting one of the following:
 - 4.3.1 **Associate's Degree and additional education:**
Holds an Associate's degree in any content area and has met the following criteria:
 - 4.3.1.1 Satisfactorily completed nine (9) college credits in non-duplicated courses taken either as part of a degree program or in addition to it from a regionally accredited college or university in the following content areas:
 - 4.3.1.1.1 Career and Technical Education Pedagogy (6 credits); and
 - 4.3.1.1.2 Special Education (3 credits); and
 - 4.3.1.2 Satisfactorily completed twelve (12) college credits or their equivalent in professional development or technical training in non-duplicated courses taken either as part of a degree program or in addition to it from a regionally accredited college or university or from a technical training or professional development provider in any combination of the following content areas:
 - 4.3.1.2.1 Career and Technical Education Pedagogy
 - 4.3.1.2.2 Education Pedagogy
 - 4.3.1.2.3 Educational Psychology
 - 4.3.1.2.4 Special Education
 - 4.3.1.2.5 Science
 - 4.3.1.2.6 Mathematics
 - 4.3.1.2.7 English
 - 4.3.1.2.8 Computer Literacy
 - 4.3.1.2.9 Social Studies; or
 - 4.3.1.2.10 Education in the specific career area of certification including specifications listed in the Department's specific career area program certification requirements; or;

4.3.2 Two Years of College or Technical Training and additional education:

Satisfactorily completed Two Years of College or Technical Training and has met the following criteria:

4.3.2.1 Satisfactorily completed the requirements in 4.3.1.1 and 4.3.1.2; and

4.3.2.2 Satisfactorily completed fifteen (15) college credits in non-duplicated courses taken either as part of a degree program or in addition to it from a regionally accredited college or university, with at least one (1) course in each of the following content areas:

4.3.2.2.1 Science (3 credits)

4.3.2.2.2 Mathematics (3 credits)

4.3.2.2.3 English (3 credits)

4.3.2.2.4 Psychology (3 credits)

4.3.2.2.5 Computer Literacy (3 credits).

5.0 Experience Requirements

An educator shall also have met the following:

5.1 Acquired a minimum of six (6) years of work experience, two (2) of which must be within the last five (5) years, in the Skilled and Technical Sciences Specific Career Area of Certification; or

5.2 Acquired a minimum of six (6) years of work experience in the Skilled and Technical Sciences specific career area of certification within any time period and maintained current experience by full-time teaching in or direct supervision of the specific career area of certification for a minimum, of two (2) years within the last five (5) years.

6.0 Professional and Occupational License Requirements

An educator shall also have met the following:

6.1 In skilled or technical sciences occupations where a state license or registration is required by law, all applicants for Skilled and Technical Sciences certification, with the exception of the areas listed in 6.2, shall present a valid and current Delaware license or registration upon application for a Standard Certificate; and

6.2 Applicants for Skilled and Technical Sciences certification in the career areas of Electrician, Plumber or HVAC shall present a valid and current Delaware license as part of completing certification requirements, pursuant to 14 Del.C. §1210(f); and

6.3 The state license or registration shall be renewed as required by law.

12 DE Reg. 584 (11/01/08) (Prop.)