

Item 11:**Consider and Take Appropriate Action on Adoption of
Proposed Revisions to 19 TAC Chapter 231, Requirements
for Public School Personnel Assignments, Subchapter C,
Grades 6-8 Assignments, and Subchapter E, Grades 9-12
Assignments****DISCUSSION AND ACTION**

SUMMARY: This item provides the State Board for Educator Certification (SBEC) an opportunity to adopt, subject to State Board of Education (SBOE) review, proposed revisions to 19 TAC Chapter 231, Requirements for Public School Personnel Assignments, Subchapter C, Grades 6-8 Assignments, and Subchapter E, Grades 9-12 Assignments, that would incorporate career and technical education (CTE) courses approved by the State Board of Education (SBOE). The proposed revisions would also incorporate requirements to complete Texas Education Agency (TEA)-approved training or appropriate training in state and federal requirements regarding work-based learning and safety and add certificate areas to the list of credentials appropriate for placement into a particular assignment. A change to correct a typographical error is recommended to 19 TAC §231.339(b).

STATUTORY AUTHORITY: The statutory authority for 19 TAC Chapter 231, Subchapters C and E, is the Texas Education Code (TEC), §§21.003(a), 21.031(a), and 21.041(b)(1) and (2).

TEC, §21.003(a), states that a person may not be employed as a teacher, teacher intern or teacher trainee, librarian, educational aide, administrator, educational diagnostician, or school counselor by a school district unless the person holds an appropriate certificate or permit issued as provided by the TEC, Chapter 21, Subchapter B.

TEC, §21.031(a), states that the SBEC shall regulate and oversee all aspects of the certification, continuing education, and standards of conduct of public school educators.

TEC, §21.041(b)(1), requires the SBEC to propose rules that provide for the regulation of educators and the general administration of the TEC, Chapter 21, Subchapter B, in a manner consistent with the TEC, Chapter 21, Subchapter B.

TEC, §21.041(b)(2), requires the SBEC to propose rules that specify the classes of educator certificates to be issued, including emergency certificates.

EFFECTIVE DATE: The proposed effective date of the proposed revisions to 19 TAC Chapter 231, Subchapters C and E, would be December 17, 2017 (20 days after filing as adopted with the *Texas Register*). The proposed effective date is also based on the SBEC and SBOE meeting schedules.

PREVIOUS BOARD ACTION: At the August 4, 2017 SBEC meeting, the SBEC approved the revisions to 19 TAC Chapter 231, Subchapters C and E, for publication in the *Texas Register* as proposed rules.

BACKGROUND INFORMATION AND JUSTIFICATION: Current 19 TAC Chapter 231, Requirements for Public School Personnel Assignments, provides guidance to school districts by listing courses by grade level and subject area and identifying the corresponding certificates appropriate for placement into each classroom assignment. This information assists districts with hiring and personnel assignment decisions.

TEA staff continues to work to identify the knowledge, skills, and requirements necessary to teach a particular course. The proposed revisions to 19 TAC Chapter 231, Subchapter C and Subchapter E, would identify and align the appropriate SBEC-issued certificates to each assignment and are based on the following: course curriculum; the information that must be transferred from teachers to students to ensure successful progressions from one grade level to the next; and the critical need to maintain alignment with SBOE-approved courses and comply with state and federal requirements. This cyclical work provides school districts with the most current guidance and best practices for ensuring that every individual has the appropriate certificate and meets any other requirements necessary prior to being placed into a particular assignment.

To reflect career and technical education courses approved by the SBOE, the proposed revisions to 19 TAC Chapter 231, Subchapter C and Subchapter E, shown in Attachment II, would identify the appropriate certificates and/or training requirements for placement in various assignments for Grades 6-8 and Grades 9-12 listed throughout the divisions below:

Division 9. Career Development, Grades 9-12 Assignments
Division 10. Agriculture, Food, and Natural Resources, Grades 9-12 Assignments
Division 11. Architecture and Construction, Grades 9-12 Assignments
Division 12. Arts, Audio/Video Technology, and Communications, Grades 9-12 Assignments
Division 13. Business Management and Administration, Grades 9-12 Assignments
Division 14. Education and Training, Grades 9-12 Assignments
Division 15. Finance, Grades 9-12 Assignments
Division 16. Government and Public Administration, Grades 9-12 Assignments
Division 17. Health Science, Grades 9-12 Assignments
Division 18. Hospitality and Tourism, Grades 9-12 Assignments
Division 19. Human Services, Grades 9-12 Assignments
Division 20. Information Technology, Grades 9-12 Assignments
Division 21. Law, Public Safety, Corrections, and Security, Grades 9-12 Assignments
Division 22. Manufacturing, Grades 9-12 Assignments
Division 23. Marketing, Grades 9-12 Assignments
Division 24. Science, Technology, Engineering, and Mathematics, Grades 9-12 Assignments
Division 25. Transportation, Distribution, and Logistics, Grades 9-12 Assignments

Since published as proposed, TEA staff recommends a change that would correct a typographical error in 19 TAC §231.339(b).

FISCAL IMPACT: The TEA staff has determined that there is no additional fiscal impact on state and local governments and there are no additional costs to entities required to comply with

the proposed revisions. In addition, there is no direct adverse economic impact for small businesses, microbusinesses, and rural communities; therefore, no regulatory flexibility analysis, specified in Texas Government Code, §2006.002, is required. There is no effect on local economy; therefore, no local employment statement is required under Texas Government Code, §2001.022. The proposed revisions do not impose a cost on regulated persons and, therefore, are not subject to Texas Government Code, §2001.0045.

PUBLIC AND STUDENT BENEFIT: The public and student benefit anticipated as a result of the proposed revisions would be the ability of districts to continue placing educators who are prepared to positively affect the performance of the diverse student population of this state into career and technical education assignments. The proposed revisions do not impose a cost on persons required to comply with the rules.

PROCEDURAL AND REPORTING IMPLICATIONS: The proposed rule actions would have no additional procedural and reporting implications.

LOCALLY MAINTAINED PAPERWORK REQUIREMENTS: The proposed rule actions would have no additional locally maintained paperwork requirements.

PUBLIC COMMENTS: The public comment period on the proposal began September 1, 2017, and ended October 2, 2017. Any comments received will be provided to the SBEC under separate cover prior to the October 6, 2017 meeting. The SBEC will take registered oral and written comments on this item at the October 6, 2017 meeting in accordance with the SBEC board operating policies and procedures.

ASSOCIATE COMMISSIONER'S RECOMMENDATION: I recommend that the State Board for Educator Certification:

Approve for adoption, subject to State Board of Education review, the proposed revisions to 19 TAC Chapter 231, Requirements for Public School Personnel Assignments, Subchapter C, Grades 6-8 Assignments, and Subchapter E, Grades 9-12 Assignments, with an effective date of 20 days after filing the adoption notice with the *Texas Register*.

Staff Member Responsible: Marilyn Cook, Director
Educator Certification and Testing

Attachments:

- I. Statutory Citations
- II. Text of Proposed Revisions to 19 TAC Chapter 231, Requirements for Public School Personnel Assignments, Subchapter C, Grades 6-8 Assignments, and Subchapter E, Grades 9-12 Assignments

ATTACHMENT I**Statutory Citations Relating to Proposed Revisions to
19 TAC Chapter 231, Requirements for Public School Personnel Assignments,
Subchapter C, Grades 6-8 Assignments, and Subchapter E, Grades 9-12 Assignments****Texas Education Code, §21.003, Certification Required (excerpt):**

- (a) A person may not be employed as a teacher, teacher intern or teacher trainee, librarian, educational aide, administrator, educational diagnostician, or school counselor by a school district unless the person holds an appropriate certificate or permit issued as provided by Subchapter B.

Texas Education Code, §21.031, Purpose (excerpt):

- (a) The State Board for Educator Certification is established to recognize public school educators as professionals and to grant educators the authority to govern the standards of their profession. The board shall regulate and oversee all aspects of the certification, continuing education, and standards of conduct of public school educators.

Texas Education Code, §21.041, Rules; Fees (excerpt):

- (b) The board shall propose rules that:
 - (1) provide for the regulation of educators and the general administration of this subchapter in a manner consistent with this subchapter;
 - (2) specify the classes of educator certificates to be issued, including emergency certificates;

ATTACHMENT II
Text of Proposed Revisions to 19 TAC

Chapter 231. Requirements for Public School Personnel Assignments

Subchapter C. Grades 6-8 Assignments

§231.79. Career Development, Grades 6-8.

An assignment in a departmentalized classroom for Career Development, College and Career Readiness [~~Exploring Careers~~], or Investigating Careers [~~Career Portals~~], Grades 6-8, for a holder of a valid secondary or all-level certificate is allowed with any vocational or career and technical education classroom teaching certificate specified in §233.13 of this title (relating to Career and Technical Education (Certificates not requiring experience and preparation in a skill area)) or §233.14 of this title (relating to Career and Technical Education (Certificates requiring experience and preparation in a skill area)).

Subchapter E. Grades 9-12 Assignments

Division 9. Career Development, Grades 9-12 Assignments

§231.271. Career Development, Grades 9-12.

- (a) Subject to the requirements in subsection (e) [~~(e)~~] of this section, an assignment for Career Preparation I, Career Preparation II, or Extended Career Preparation [~~Career Preparation I and II~~], Grades 9-12, is allowed with any vocational or career and technical education (CTE) classroom teaching certificate specified in §233.13 of this title (relating to Career and Technical Education (Certificates not requiring experience and preparation in a skill area)) or §233.14 of this title (relating to Career and Technical Education (Certificates requiring experience and preparation in a skill area)).
- (b) An assignment for Project-Based Research [~~Problems and Solutions~~], Grades 9-12, is allowed with any vocational or CTE classroom teaching certificate specified in §233.13 of this title or §233.14 of this title.
- (c) An assignment for Applied Mathematics for Technical Professionals, Grades 9-12, is allowed with one of the following certificates:
 - (1) Any vocational or CTE classroom teaching certificate specified in §233.13 of this title or §233.14 of this title. This assignment requires a bachelor's degree.
 - (2) Grades 6-12 or Grades 9-12 Mathematics.
 - (3) Master Mathematics Teacher (Grades 8-12).
 - (4) Mathematics: Grades 7-12.
 - (5) Mathematics: Grades 8-12.
 - (6) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (7) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (8) Physics/Mathematics: Grades 7-12.
 - (9) Physics/Mathematics: Grades 8-12.
 - (10) Secondary Mathematics (Grades 6-12).
- (d) All teachers assigned to Applied Mathematics for Technical Professionals shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

- (e) ~~(e)~~ The school district is responsible for ensuring that each teacher assigned to Career Preparation I, Career Preparation II, ~~and H~~ or Extended Career Preparation ~~(Problems and Solutions)~~, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

Division 10. Agriculture, Food, and Natural Resources, Grades 9-12 Assignments

§231.281. Agriculture, Food, and Natural Resources, Grades 9-12.

- (a) An assignment for Advanced Energy and Natural Resource Technology; Agriculture Laboratory and Field Experience; Energy and Natural Resource Technology ~~(Advanced Environmental Technology)~~; Equine Science; Food Processing; Food Technology and Safety; Forestry and Woodland Ecosystems; Greenhouse Operation and Production; Horticultural ~~(Horticulture)~~ Science; Landscape Design and ~~(Turf Grass)~~ Management; Livestock Production; Principles of Agriculture, Food, and Natural Resources; Professional Standards in Agribusiness; Range Ecology and Management; Small Animal Management; Turf Grass Management; Veterinary Medical Applications; or Wildlife, Fisheries, and Ecology Management, Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
 - (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Agriculture, Food, and Natural Resources or Extended Practicum in Agriculture, Food, and Natural Resources, Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
 - (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Agriculture, Food, and Natural Resources or Extended Practicum in Agriculture, Food, and Natural Resources, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.283. Advanced Animal Science and Advanced Plant and Soil Science, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Advanced Animal Science or Advanced Plant and Soil Science, Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
 - (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
 - (4) Life Science: Grades 7-12.
 - (5) Life Science: Grades 8-12.
 - (6) Master Science Teacher (Grades 8-12).
 - (7) Science: Grades 7-12.
 - (8) Science: Grades 8-12.
 - (9) Secondary Biology (Grades 6-12).
 - (10) Secondary Science, Composite (Grades 6-12).
- (b) All teachers assigned to these courses shall participate in Texas Education Agency-approved training prior to teaching these courses effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.287. Mathematical Applications in Agriculture, Food, and Natural Resources, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Mathematical Applications in Agriculture, Food, and Natural Resources, Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
 - (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
 - (4) Master Mathematics Teacher (Grades 8-12).
 - (5) Mathematics: Grades 7-12.
 - (6) Mathematics: Grades 8-12.
 - (7) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (8) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (9) Physics/Mathematics: Grades 7-12.
 - (10) Physics/Mathematics: Grades 8-12.
 - (11) Secondary Mathematics (Grades 6-12).
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.289. Agricultural Equipment [Facilities] Design and Fabrication; Agricultural Structures Design and Fabrication; Agricultural Mechanics and Metal Technologies; Agricultural Power Systems; Oil and Gas Production [Energy and Natural Resources Technology] , Grades 9-12.

An assignment for Agricultural Equipment [Facilities] Design and Fabrication, Agricultural Structures Design and Fabrication, Agricultural Mechanics and Metal Technologies, Agricultural Power Systems, Oil and Gas Production I, or Oil and Gas Production II [or Energy and Natural Resources Technology] , Grades 9-12, is allowed with one of the following certificates.

- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
- (2) Agricultural Science and Technology: Grades 6-12.
- (3) Any vocational agriculture certificate.
- ~~[(4) Secondary Industrial Arts (Grades 6-12).]~~
- ~~[(5) Secondary Industrial Technology (Grades 6-12).]~~
- ~~[(6) Technology Education: Grades 6-12].]~~
- ~~[(4) [(7)] Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.~~
- ~~[(5) [(8)] Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.~~
- ~~[(6) [(9)] Vocational Trades and Industry. This assignment requires appropriate work approval.~~

§231.291. [Principles and Elements of] Floral Design, Grades 9-12.

An assignment for [Principles and Elements of] Floral Design, Grades 9-12, is allowed with one of the following certificates.

- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
- (2) Agricultural Science and Technology: Grades 6-12.
- ~~[(3) All Level Art (Prekindergarten Grade 12).]~~

(3) ~~[(4)]~~ Any vocational agriculture certificate.

~~[(5) — Art: Early Childhood Grade 12.]~~

~~[(6) — Secondary Art (Grades 6-12).]~~

(4) ~~[(7)]~~ Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.

(5) ~~[(8)]~~ Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.

(6) ~~[(9)]~~ Vocational Trades and Industry. This assignment requires appropriate work approval.

Division 11. Architecture and Construction, Grades 9-12 Assignments

§231.301. Principles of Architecture ; Principles of ~~[and]~~ Construction, Grades 9-12.

An assignment for Principles of Architecture or Principles of ~~[and]~~ Construction, Grades 9-12, is allowed with one of the following certificates.

- (1) Any home economics or homemaking certificate.
- (2) Family and Consumer Sciences, Composite: Grades 6-12.
- (3) Mathematics/Physical Science/Engineering: Grades 6-12.
- (4) Mathematics/Physical Science/Engineering: Grades 8-12.
- (5) Secondary Industrial Arts (Grades 6-12).
- (6) Secondary Industrial Technology (Grades 6-12).
- (7) Technology Education: Grades 6-12.
- (8) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (9) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (10) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.303. Interior Design, Grades 9-12.

- (a) An assignment for Interior Design I or ~~[Advanced]~~ Interior Design II , Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Interior Design or Extended Practicum in Interior Design , Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Interior Design or Extended Practicum in Interior Design , Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.305. Architectural Design, Grades 9-12.

- (a) An assignment for Architectural Design I or ~~[Advanced]~~ Architectural Design II , Grades 9-12, is allowed with one of the following certificates.
- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (2) Mathematics/Physical Science/Engineering: Grades 8-12.

- (3) Secondary Industrial Arts (Grades 6-12).
 - (4) Secondary Industrial Technology (Grades 6-12).
 - (5) Technology Education: Grades 6-12.
 - (6) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (7) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (8) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Architectural Design or Extended Practicum in Architectural Design, Grades 9-12, is allowed with one of the following certificates.
- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (2) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (3) Secondary Industrial Arts (Grades 6-12).
 - (4) Secondary Industrial Technology (Grades 6-12).
 - (5) Technology Education: Grades 6-12.
 - (6) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (7) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (8) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Architectural Design or Extended Practicum in Architectural Design, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.307. Construction Management ; ~~[and]~~ Construction Technology, Grades 9-12.

- (a) An assignment for Construction Management I, ~~[Advanced]~~ Construction Management II, Construction Technology I, or ~~[Advanced]~~ Construction Technology II, Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
 - (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
 - (4) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (5) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (6) Secondary Industrial Arts (Grades 6-12).
 - (7) Secondary Industrial Technology (Grades 6-12).
 - (8) Technology Education: Grades 6-12.
 - (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (11) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Construction Management, Practicum in Construction Technology, Extended Practicum in Construction Management, or Extended Practicum in Construction Technology, Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.

- (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
 - (4) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (5) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (6) Secondary Industrial Arts (Grades 6-12).
 - (7) Secondary Industrial Technology (Grades 6-12).
 - (8) Technology Education: Grades 6-12.
 - (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (11) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Construction Management, Practicum in Construction Technology, Extended Practicum in Construction Management, or Extended Practicum in Construction Technology, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.309. Building Maintenance Technology, Grades 9-12.

An assignment for Building Maintenance Technology I or ~~[Advanced]~~ Building Maintenance Technology II, Grades 9-12, is allowed with one of the following certificates.

- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
- (2) Agricultural Science and Technology: Grades 6-12.
- (3) Any vocational agriculture certificate.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Education: Grades 6-12.
- (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (9) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.313. Electrical Technology; Heating, Ventilation, and Air Conditioning (HVAC) ~~[I]~~ and Refrigeration Technology; Masonry Technology; and ~~[Piping and]~~ Plumbing Technology, Grades 9-12.

- (a) An assignment for Electrical Technology I ; ~~[Advanced]~~ Electrical Technology II ; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration I ~~[Technology]~~ ; Heating, Ventilation, and Air Conditioning (HVAC) ~~[Advanced HVAC]~~ and Refrigeration II ~~[Technology]~~ ; Masonry Technology I; Masonry Technology II; ~~[Piping and]~~ Plumbing Technology I ; or ~~[Advanced Piping and]~~ Plumbing Technology II, Grades 9-12, is allowed with one of the following certificates.

- (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (3) Vocational Trades and Industry. This assignment requires appropriate work approval.

- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Masonry Technology or Extended Practicum in Masonry Technology, Grades 9-12, is allowed with one of the following certificates.

- (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.

- (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (3) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Masonry Technology or Extended Practicum in Masonry Technology, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

Division 12. Arts, Audio/Video ~~[Audio-Video]~~ Technology, and Communications, Grades 9-12 Assignments

§231.331. Professional Communications, Grades 9-12.

An assignment for Professional Communications, Grades 9-12, is allowed with one of the following certificates.

- (1) All-Level Speech and Drama/Theatre Arts (Prekindergarten-Grade 12).
- (2) Any vocational or career and technical education classroom teaching certificate specified in §233.13 of this title (relating to Career and Technical Education (Certificates not requiring experience and preparation in a skill area)) or §233.14 of this title (relating to Career and Technical Education (Certificates requiring experience and preparation in a skill area)) [with a minimum of a bachelor's degree from an accredited institution of higher education that at the time was accredited or otherwise approved by an accrediting organization recognized by the Texas Higher Education Coordination Board and six semester credit hours in speech] .
- (3) Mathematics/Physical Science/Engineering: Grades 6-12. [This assignment requires six semester credit hours in speech.]
- (4) Mathematics/Physical Science/Engineering: Grades 8-12. [This assignment requires six semester credit hours in speech.]
- (5) Secondary English Language Arts, Composite (Grades 6-12). [This assignment requires six semester credit hours in speech.]
- (6) Secondary Speech (Grades 6-12).
- (7) Secondary Speech Communications (Grades 6-12).
- (8) Speech: Grades 7-12.
- (9) Speech: Grades 8-12.

§231.333. Principles of Arts, Audio/Video ~~[Audio-Video]~~ Technology, and Communications, Grades 9-12.

An assignment for Principles of Arts, Audio/Video ~~[Audio-Video]~~ Technology, and Communications, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
- (2) Business and Finance: Grades 6-12.
- (3) Business Education: Grades 6-12.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Applications: Early Childhood-Grade 12.
- (7) Technology Applications: Grades 8-12.
- (8) Technology Education: Grades 6-12.
- (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.

- (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (11) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.335. Animation, Grades 9-12.

- (a) An assignment for Animation I, Animation I Lab, Animation II, or ~~[Advanced]~~ Animation II Lab, Grades 9-12, is allowed with one of the following certificates.
 - (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
 - (4) Secondary Industrial Arts (Grades 6-12).
 - (5) Secondary Industrial Technology (Grades 6-12).
 - (6) Technology Applications: Early Childhood-Grade 12.
 - (7) Technology Applications: Grades 8-12.
 - (8) Technology Education: Grades 6-12.
 - (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (11) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Animation or Extended Practicum in Animation, Grades 9-12, is allowed with one of the following certificates.
 - (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
 - (4) Secondary Industrial Arts (Grades 6-12).
 - (5) Secondary Industrial Technology (Grades 6-12).
 - (6) Technology Applications: Early Childhood-Grade 12.
 - (7) Technology Applications: Grades 8-12.
 - (8) Technology Education: Grades 6-12.
 - (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (11) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Animation or Extended Practicum in Animation, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.337. Audio/Video ~~[Audio-Video]~~ Production; Graphic Design and Illustration, Grades 9-12.

- (a) An assignment for Audio/Video ~~[Audio-Video]~~ Production I; Audio/Video Production I Lab; Audio/Video Production II; Audio/Video Production II Lab; Digital Audio Technology I; Digital Audio Technology II; ~~[Advanced Audio-Video Production]~~; Graphic Design and Illustration I; Graphic Design and Illustration I Lab; ~~[or Advanced]~~ Graphic Design and Illustration II; Graphic Design and Illustration II Lab; or Video Game Design, Grades 9-12, is allowed with one of the following certificates.
 - (1) Secondary Industrial Arts (Grades 6-12).

- (2) Secondary Industrial Technology (Grades 6-12).
 - (3) Technology Applications: Early Childhood-Grade 12.
 - (4) Technology Applications: Grades 8-12.
 - (5) Technology Education: Grades 6-12.
 - (6) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (7) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (8) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Audio/Video ~~Audio/Video~~ Production, ~~or~~ Practicum in Graphic Design and Illustration, Extended Practicum in Audio/Video Production, or Extended Practicum in Graphic Design and Illustration, Grades 9-12, is allowed with one of the following certificates.
- (1) Secondary Industrial Arts (Grades 6-12).
 - (2) Secondary Industrial Technology (Grades 6-12).
 - (3) Technology Applications: Early Childhood-Grade 12.
 - (4) Technology Applications: Grades 8-12.
 - (5) ~~(3)~~ Technology Education: Grades 6-12.
 - (6) ~~(4)~~ Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (7) ~~(5)~~ Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (8) ~~(6)~~ Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Audio/Video ~~Audio/Video~~ Production, Practicum in Graphic Design and Illustration, Extended Practicum in Audio/Video Production, or Extended Practicum in Graphic Design and Illustration, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.339. Photography, Grades 9-12.

- (a) An assignment for Commercial Photography I, Commercial Photography I Lab, Commercial Photography II, or ~~Advanced~~ Commercial Photography II Lab, Grades 9-12, is allowed with one of the following certificates.
- (1) Art (Early Childhood-Grade 12).
 - (2) Art: Junior High School (Grades 9-10 only), High School, Secondary.
 - (3) Art (Grades 6-12, Grades 9-12, or All-Level).
 - (4) ~~(1)~~ Secondary Industrial Arts (Grades 6-12).
 - (5) ~~(2)~~ Secondary Industrial Technology (Grades 6-12).
 - (6) ~~(3)~~ Technology Education: Grades 6-12.
 - (7) ~~(4)~~ Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (8) ~~(5)~~ Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (9) ~~(6)~~ Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Commercial ~~Commercial~~ Photography or Extended Practicum in Commercial Photography, Grades 9-12, is allowed with one of the following certificates.
- (1) Secondary Industrial Arts (Grades 6-12).

- (2) Secondary Industrial Technology (Grades 6-12).
- (3) Technology Education: Grades 6-12.
- (4) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (5) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (6) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Commercial Photography or Extended Practicum in Commercial Photography, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.341. Printing and Imaging Technology, Grades 9-12.

- (a) An assignment for Printing and Imaging Technology I, Printing and Imaging Technology I Lab, Printing and Imaging Technology II, or [Advanced] Printing and Imaging Technology II Lab, Grades 9-12, is allowed with one of the following certificates.
 - (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (3) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Printing and Imaging Technology or Extended Practicum in Printing and Imaging Technology, Grades 9-12, is allowed with one of the following certificates.
 - (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (3) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Printing and Imaging Technology or Extended Practicum in Printing and Imaging Technology, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.343. Fashion Design, Grades 9-12.

- (a) An assignment for Fashion Design I, Fashion Design I Lab, Fashion Design II, or [Advanced] Fashion Design II Lab, Grades 9-12, is allowed with one of the following certificates.
 - (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Fashion Design or Extended Practicum in Fashion Design, Grades 9-12, is allowed with one of the following certificates.
 - (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Fashion Design or Extended Practicum in Fashion Design, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

Division 13. Business Management and Administration, Grades 9-12 Assignments**§231.361. Business Information Management; Business Law; and Touch System Data Entry, Grades 9-12.**

- (a) An assignment for Business Information Management I and II, Business Law, or Touch System Data Entry, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Business Management or Extended Practicum in Business Management , Grades 9-12, is allowed with one of the following certificates.
- (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Business Management or Extended Practicum in Business Management , Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.363. Business Management; Business Lab; Global Business; Human Resources Management; Principles of Business, Marketing , and Finance; and Virtual Business, Grades 9-12.

An assignment for Business Management; Business Lab; Global Business; Human Resources Management; Principles of Business, Marketing, and Finance; or Virtual Business, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
- (2) Any marketing or distributive education certificate.
- (3) Business and Finance: Grades 6-12.
- (4) Business Education: Grades 6-12.
- (5) Marketing: Grades 6-12.
- (6) Marketing Education: Grades 8-12.

§231.365. Business English, Grades 9-12.

- (a) An assignment for Business English, Grades 9-12, is allowed with one of the following certificates.
- (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
 - (4) English Language Arts and Reading: Grades 7-12.
 - (5) English Language Arts and Reading: Grades 8-12.
 - (6) Grades 6-12 or Grades 9-12--English.
 - (7) Grades 6-12 or Grades 9-12--English Language Arts, Composite.
 - (8) Junior High School (Grades 9-10 only) or High School--English.
 - (9) Junior High School (Grades 9-10 only) or High School--English Language Arts, Composite.
 - (10) Secondary English (Grades 6-12).
 - (11) Secondary English Language Arts, Composite (Grades 6-12).
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

Division 14. Education and Training, Grades 9-12 Assignments**§231.381. Education and Training, Grades 9-12.**

- (a) An assignment for Instructional Practices [~~in Education and Training~~] or Principles of Education and Training, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
 - (3) Human Development and Family Studies: Grades 8-12.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Education and Training or Extended Practicum in Education and Training, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
 - (3) Human Development and Family Studies: Grades 8-12.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Education and Training or Extended Practicum in Education and Training, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

Division 15. Finance, Grades 9-12 Assignments**§231.393. Accounting I ; Financial Analysis; Insurance Operations; and Securities and Investments, Grades 9-12.**

An assignment for Accounting I; [~~Accounting II~~] Financial Analysis; Insurance Operations; and Securities and Investments, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
- (2) Business and Finance: Grades 6-12.
- (3) Business Education: Grades 6-12.

§231.394. Statistics and Business Decision Making [~~Risk Management~~] , Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Statistics and Business Decision Making [~~Risk Management~~] , Grades 9-12, is allowed with one of the following certificates.
- (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
 - (4) Master Mathematics Teacher (Grades 8-12).
 - (5) Mathematics: Grades 7-12.
 - (6) Mathematics: Grades 8-12.
 - (7) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (8) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (9) Physics/Mathematics: Grades 7-12.
 - (10) Physics/Mathematics: Grades 8-12.
 - (11) Secondary Mathematics (Grades 6-12).

- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.395. Financial Mathematics, Grades 9-12.

- (a) An assignment for Financial Mathematics, Grades 9-12, is allowed with one of the following certificates.
- (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
 - (4) Master Mathematics Teacher (Grades 8-12).
 - (5) Mathematics: Grades 7-12.
 - (6) Mathematics: Grades 8-12.
 - (7) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (8) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (9) Physics/Mathematics: Grades 7-12.
 - (10) Physics/Mathematics: Grades 8-12.
 - (11) Secondary Mathematics (Grades 6-12).
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.397. Accounting II, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Accounting II, Grades 9-12, is allowed with one of the following certificates.
- (1) Any business or office education certificate.
 - (2) Business and Finance: Grades 6-12.
 - (3) Business Education: Grades 6-12.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

Division 16. Government and Public Administration, Grades 9-12 Assignments**§231.401. Government and Public Administration, Grades 9-12.**

- (a) An assignment for Foreign Service and Diplomacy, Planning and Governance, Political Science I and II, Principles of Government and Public Administration, or Public Management and Administration, Grades 9-12, is allowed with one of the following.
- (1) Grades 6-12 or Grades 9-12--Government.
 - (2) Grades 6-12 or Grades 9-12--Social Studies.
 - (3) Junior High School (Grades 9-10 only) or High School--Government-Political Science.
 - (4) Junior High School (Grades 9-10 only) or High School--Social Science, Composite.
 - (5) Secondary Government (Grades 6-12).

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- (6) Secondary Political Science (Grades 6-12).
 - (7) Secondary Social Science, Composite (Grades 6-12).
 - (8) Secondary Social Studies, Composite (Grades 6-12).
 - (9) Social Studies: Grades 7-12.
 - (10) Social Studies: Grades 8-12.
 - (11) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (12) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (13) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Local, State, and Federal Government or Extended Practicum in Local, State, and Federal Government, Grades 9-12, is allowed with one of the following certificates.
- (1) Grades 6-12 or Grades 9-12--Government.
 - (2) Grades 6-12 or Grades 9-12--Social Studies.
 - (3) Junior High School (Grades 9-10 only) or High School--Government-Political Science.
 - (4) Junior High School (Grades 9-10 only) or High School--Social Science, Composite.
 - (5) Secondary Government (Grades 6-12).
 - (6) Secondary Political Science (Grades 6-12).
 - (7) Secondary Social Science, Composite (Grades 6-12).
 - (8) Secondary Social Studies, Composite (Grades 6-12).
 - (9) Social Studies: Grades 7-12.
 - (10) Social Studies: Grades 8-12.
 - (11) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (12) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (13) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Local, State, and Federal Government or Extended Practicum in Local, State, and Federal Government, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.403. Revenue, Taxation, and Regulation, Grades 9-12.

An assignment for Revenue, Taxation, and Regulation, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
- (2) Business and Finance: Grades 6-12.
- (3) Business Education: Grades 6-12.
- (4) Grades 6-12 or Grades 9-12--Social Studies.
- (5) Junior High School (Grades 9-10 only) or High School--Social Science, Composite.
- (6) Secondary Social Science, Composite (Grades 6-12).
- (7) Secondary Social Studies, Composite (Grades 6-12).
- (8) Social Studies: Grades 7-12.

- (9) Social Studies: Grades 8-12.
- (10) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (11) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (12) Vocational Trades and Industry. This assignment requires appropriate work approval.

Division 17. Health Science, Grades 9-12 Assignments

§231.421. Health Science, Grades 9-12.

- (a) An assignment for Health Science Theory, Health Science Clinical, Medical Terminology, Pharmacology, Principles of Health Science, or World Health Research, Grades 9-12, is allowed with one of the following certificates.
 - (1) Health Science: Grades 6-12.
 - (2) Health Science Technology Education: Grades 8-12.
 - (3) Vocational Health Occupations.
 - (4) Vocational Health Science Technology.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Health Science or Extended Practicum in Health Science, Grades 9-12, is allowed with one of the following certificates.
 - (1) Health Science: Grades 6-12.
 - (2) Health Science Technology Education: Grades 8-12.
 - (3) Vocational Health Occupations.
 - (4) Vocational Health Science Technology.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Health Science or Extended Practicum in Health Science, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.423. Anatomy and Physiology, Medical Microbiology, and Pathophysiology, Grades 9-12.

- (a) An assignment for Anatomy and Physiology, Medical Microbiology, or Pathophysiology, Grades 9-12, is allowed with one of the following certificates.
 - (1) Secondary Biology (Grades 6-12).
 - (2) Secondary Science (Grades 6-12).
 - (3) Secondary Science, Composite (Grades 6-12).
 - (4) Health Science: Grades 6-12. This assignment requires a bachelor's degree.
 - (5) Health Science Technology Education: Grades 8-12. This assignment requires a bachelor's degree.
 - (6) Life Science: Grades 7-12.
 - (7) Life Science: Grades 8-12.
 - (8) Master Science Teacher (Grades 8-12).
 - (9) Science: Grades 7-12.
 - (10) Science: Grades 8-12.
 - (11) Vocational Health Occupations. This assignment requires a bachelor's degree.
 - (12) Vocational Health Science Technology. This assignment requires a bachelor's degree.

- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.425. Mathematics for Medical Professionals, Grades 9-12.

- (a) An assignment for Mathematics for Medical Professionals, Grades 9-12, is allowed with one of the following certificates.
- (1) Health Science: Grades 6-12. This assignment requires a bachelor's degree.
 - (2) Health Science Technology Education: Grades 8-12. This assignment requires a bachelor's degree.
 - (3) Vocational Health Occupations. This assignment requires a bachelor's degree.
 - (4) Vocational Health Science Technology. This assignment requires a bachelor's degree.
 - (5) Master Mathematics Teacher (Grades 8-12).
 - (6) Mathematics: Grades 7-12.
 - (7) Mathematics: Grades 8-12.
 - (8) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (9) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (10) Physics/Mathematics: Grades 7-12.
 - (11) Physics/Mathematics: Grades 8-12.
 - (12) Secondary Mathematics.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.427. Health Informatics, Grades 9-12.

An assignment for Health Informatics, Grades 9-12, is allowed with one of the following certificates.

- (1) Health Science: Grades 6-12.
- (2) Health Science Technology Education: Grades 8-12.
- (3) Vocational Health Occupations.
- (4) Vocational Health Science Technology.
- (5) Any business or office education certificate.
- (6) Business and Finance: Grades 6-12.
- (7) Business Education: Grades 6-12.

Division 18. Hospitality and Tourism, Grades 9-12 Assignments

§231.441. Hospitality and Tourism, Grades 9-12.

- (a) An assignment for Hospitality Services, Hotel Management, Principles of Hospitality and Tourism, ~~Restaurant Management~~, or Travel and Tourism Management, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Any marketing or distributive education certificate.
 - (3) Family and Consumer Sciences, Composite: Grades 6-12.

- (4) Hospitality, Nutrition, and Food Sciences: Grades 8-12.
 - (5) Marketing: Grades 6-12.
 - (6) Marketing Education: Grades 8-12.
 - (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (9) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Hospitality Services or Extended Practicum in Hospitality Services , Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Any marketing or distributive education certificate.
 - (3) Family and Consumer Sciences, Composite: Grades 6-12.
 - (4) Hospitality, Nutrition, and Food Sciences: Grades 8-12.
 - (5) Marketing: Grades 6-12.
 - (6) Marketing Education: Grades 8-12.
 - (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (9) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Hospitality Services or Extended Practicum in Hospitality Services , Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.443. Culinary Arts, Grades 9-12.

- (a) An assignment for Introduction to Culinary Arts, Culinary Arts, or Advanced Culinary Arts, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
 - (3) Hospitality, Nutrition, and Food Sciences: Grades 8-12.
 - (4) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (5) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (6) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Culinary Arts or Extended Practicum in Culinary Arts , Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
 - (3) Hospitality, Nutrition, and Food Sciences: Grades 8-12.
 - (4) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (5) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (6) Vocational Trades and Industry. This assignment requires appropriate work approval.

- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Culinary Arts or Extended Practicum in Culinary Arts, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.445. Food Science, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Food Science, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Chemistry: Grades 7-12.
 - (3) Chemistry: Grades 8-12.
 - (4) Family and Consumer Sciences, Composite: Grades 6-12.
 - (5) Hospitality, Nutrition, and Food Sciences: Grades 8-12.
 - (6) Life Science: Grades 7-12.
 - (7) Life Science: Grades 8-12.
 - (8) Master Science Teacher (Grades 8-12).
 - (9) Science: Grades 7-12.
 - (10) Science: Grades 8-12.
 - (11) Secondary Biology (Grades 6-12).
 - (12) Secondary Chemistry (Grades 6-12).
 - (13) Secondary Science (Grades 6-12).
 - (14) Secondary Science, Composite (Grades 6-12).
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

Division 19. Human Services, Grades 9-12 Assignments**§231.461. Human Services, Grades 9-12.**

- (a) An assignment for Child Development, Child Guidance, Family and Community Services, Interpersonal Studies, or Principles of Human Services, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
 - (3) Human Development and Family Studies: Grades 8-12.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Human Services or Extended Practicum in Human Services, Grades 9-12, is allowed with one of the following certificates.
- (1) Any home economics or homemaking certificate.
 - (2) Family and Consumer Sciences, Composite: Grades 6-12.
 - (3) Human Development and Family Studies: Grades 8-12.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Human Services or Extended Practicum in Human Services, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.469. Cosmetology, Grades 9-12.

An assignment for Introduction to Cosmetology, Cosmetology I, ~~or~~ Cosmetology II, or Principles of Cosmetology Design and Color Theory, Grades 9-12, is allowed with one of the following certificates plus a valid license as a cosmetology instructor issued by the Texas Department of Licensing and Regulation.

- (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (3) Vocational Trades and Industry. This assignment requires appropriate work approval.

Division 20. Information Technology, Grades 9-12 Assignments**§231.481. Information Technology, Grades 9-12.**

An assignment for Principles of Information Technology, Networking, or Networking Lab ~~[Research in Information Technology Solutions, or Telecommunications and Networking]~~, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
- (2) Business and Finance: Grades 6-12.
- (3) Business Education: Grades 6-12.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Applications: Early Childhood-Grade 12.
- (7) Technology Applications: Grades 8-12.
- (8) Technology Education: Grades 6-12.
- (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (11) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.483. Digital ~~[and Interactive]~~ Media ; ~~or~~ Web Technologies, Grades 9-12.

An assignment for Digital ~~[and Interactive]~~ Media or Web Technologies, Grades 9-12, is allowed with one of the following certificates.

- (1) Any business or office education certificate.
- (2) Business and Finance: Grades 6-12.
- (3) Business Education: Grades 6-12.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Education: Grades 6-12.
- (7) Technology Applications: Early Childhood-Grade 12.
- (8) Technology Applications: Grades 8-12.
- (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (11) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.485. Computer Programming, Grades 9-12.

An assignment for Computer Programming I or ~~[Advanced]~~ Computer Programming II, Grades 9-12, is allowed using one of the following certificates.

- (1) Any business or office education certificate.
- (2) Business and Finance: Grades 6-12.
- (3) Business Education: Grades 6-12.
- (4) Computer Science: Grades 8-12.
- (5) Secondary Computer Information Systems (Grades 6-12).
- (6) Secondary Industrial Arts (Grades 6-12).
- (7) Secondary Industrial Technology (Grades 6-12).
- (8) Technology Applications: Early Childhood-Grade 12.
- (9) Technology Applications: Grades 8-12.
- (10) ~~(8)~~ Technology Education: Grades 6-12.
- (11) ~~(9)~~ Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (12) ~~(10)~~ Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (13) ~~(11)~~ Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.487. Computer Maintenance, Grades 9-12.

An assignment for Computer Maintenance or Computer Maintenance Lab, Grades 9-12, is allowed with one of the following certificates.

- (1) Secondary Industrial Arts (Grades 6-12).
- (2) Secondary Industrial Technology (Grades 6-12).
- (3) Technology Education: Grades 6-12.
- (4) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (5) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (6) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.489. Computer Technician ; Information Technology , Grades 9-12.

(a) Subject to the requirements in subsection (b) of this section, an ~~[An]~~ assignment for Computer Technician Practicum, Extended Computer Technician Practicum, Practicum in Information Technology, or Extended Practicum in Information Technology , Grades 9-12, is allowed with one of the following certificates.

- (1) Secondary Industrial Arts (Grades 6-12).
- (2) Secondary Industrial Technology (Grades 6-12).
- (3) Technology Education: Grades 6-12.
- (4) Technology Applications: Early Childhood-Grade 12.
- (5) Technology Applications: Grades 8-12.
- (6) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (7) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.

- (8) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) The school district is responsible for ensuring that each teacher assigned to Computer Technician Practicum, Extended Computer Technician Practicum, Practicum in Information Technology, or Extended Practicum in Information Technology, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

Division 21. Law, Public Safety, Corrections, and Security, Grades 9-12 Assignments

§231.501. Law, Public Safety, Corrections, and Security, Grades 9-12.

- (a) An assignment for Correctional Services; Court Systems and Practices; Criminal Investigations; Federal Law Enforcement and Protective Services; Firefighter I and II; Law Enforcement I and II; or Principles of Law, Public Safety, Corrections, and Security [~~;-or Security Services~~], Grades 9-12, is allowed with a valid license appropriate for the assignment plus one of the following certificates.
- (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (3) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Law, Public Safety, Corrections, and Security or Extended Practicum in Law, Public Safety, Corrections, and Security, Grades 9-12, is allowed with a current license appropriate for the assignment plus one of the following certificates.
- (1) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (2) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (3) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Law, Public Safety, Corrections, and Security or Extended Practicum in Law, Public Safety, Corrections, and Security, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.503. Forensic Science, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Forensic Science, Grades 9-12, is allowed with one of the following certificates.
- (1) Chemistry: Grades 7-12.
 - (2) Chemistry: Grades 8-12.
 - (3) Health Science: Grades 6-12. This assignment requires a bachelor's degree.
 - (4) Health Science Technology Education: Grades 8-12. This assignment requires a bachelor's degree.
 - (5) Life Science: Grades 7-12.
 - (6) Life Science: Grades 8-12.
 - (7) Master Science Teacher (Grades 8-12).
 - (8) Science: Grades 7-12.
 - (9) Science: Grades 8-12.
 - (10) Secondary Biology (Grades 6-12).
 - (11) Secondary Chemistry (Grades 6-12).
 - (12) Secondary Science (Grades 6-12).

- (13) Secondary Science, Composite (Grades 6-12).
 - (14) Trade and Industrial Education: Grades 6-12. This assignment requires a bachelor's degree and appropriate work approval.
 - (15) Trade and Industrial Education: Grades 8-12. This assignment requires a bachelor's degree and appropriate work approval.
 - (16) Vocational Health Occupations. This assignment requires a bachelor's degree.
 - (17) Vocational Health Science Technology. This assignment requires a bachelor's degree.
 - (18) Vocational Trades and Industry. This assignment requires a bachelor's degree and appropriate work approval.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

Division 22. Manufacturing, Grades 9-12 Assignments

§231.521. Manufacturing, Grades 9-12.

- (a) An assignment for Diversified Manufacturing I, Diversified Manufacturing II, Manufacturing Engineering Technology I, Metal Fabrication and Machining I, Metal Fabrication and Machining II, Precision Metal Manufacturing I, Precision Metal Manufacturing II, Precision Metal Manufacturing II Lab, Principles of Manufacturing [~~Precision Metal Manufacturing, Advanced Precision Metal Manufacturing, Flexible Manufacturing, Advanced Flexible Manufacturing, or Manufacturing Engineering~~], Grades 9-12, is allowed using one of the following certificates.
- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (2) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (3) Secondary Industrial Arts (Grades 6-12).
 - (4) Secondary Industrial Technology (Grades 6-12).
 - (5) Technology Education: Grades 6-12.
 - (6) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (7) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (8) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Manufacturing or Extended Practicum in Manufacturing, Grades 9-12, is allowed with one of the following certificates.
- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (2) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (3) Secondary Industrial Arts (Grades 6-12).
 - (4) Secondary Industrial Technology (Grades 6-12).
 - (5) Technology Education: Grades 6-12.
 - (6) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (7) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (8) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Manufacturing or Extended Practicum in Manufacturing, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.523. Welding, Grades 9-12.

An assignment for Introduction to Welding, Welding I, Welding II, or Welding II Lab [~~or Advanced Welding~~], Grades 9-12, is allowed with one of the following certificates.

- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
- (2) Agricultural Science and Technology: Grades 6-12.
- (3) Any vocational agriculture certificate.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Education: Grades 6-12.
- (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (9) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.525. Manufacturing Engineering Technology II, Grades 9-12.

(a) An assignment for Manufacturing Engineering Technology II, Grades 9-12, is allowed with one of the following certificates.

- (1) Grades 6-12 or Grades 9-12 Mathematics.
- (2) Master Mathematics Teacher (Grades 8-12).
- (3) Mathematics: Grades 7-12.
- (4) Mathematics: Grades 8-12.
- (5) Mathematics/Physical Science/Engineering: Grades 6-12.
- (6) Mathematics/Physical Science/Engineering: Grades 8-12.
- (7) Physics/Mathematics: Grades 7-12.
- (8) Physics/Mathematics: Grades 8-12.
- (9) Secondary Industrial Arts (Grades 6-12).
- (10) Secondary Industrial Arts Technology (Grades 6-12).
- (11) Secondary Mathematics.
- (12) Technology Education: Grades 6-12.
- (13) Trade and Industrial Education: Grades 6-12. This assignment requires a bachelor's degree and appropriate work approval.
- (14) Trade and Industrial Education: Grades 8-12. This assignment requires a bachelor's degree and appropriate work approval.
- (15) Vocational Trades and Industry. This assignment requires a bachelor's degree and appropriate work approval.

(b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching the course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

Division 23. Marketing, Grades 9-12 Assignments

§231.541. Marketing, Grades 9-12.

- (a) An assignment for Social Media Marketing or Sports and Entertainment Marketing, Grades 9-12, is allowed with one of the following certificates.
- (1) Any marketing or distributive education certificate.
 - (2) Marketing: Grades 6-12.
 - (3) Marketing Education: Grades 8-12.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Advanced Marketing, Practicum in Marketing, or Extended Practicum in Marketing ~~[Marketing Dynamics or Practicum in Marketing Dynamics]~~, Grades 9-12, is allowed with one of the following certificates.
- (1) Any marketing or distributive education certificate.
 - (2) Marketing: Grades 6-12.
 - (3) Marketing Education: Grades 8-12.
- (c) The school district is responsible for ensuring that each teacher assigned to Advanced Marketing, Practicum in Marketing, or Extended Practicum in Marketing ~~[Marketing Dynamics or Practicum in Marketing Dynamics]~~, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.543. Advertising ~~[and Sales Promotion]~~, Grades 9-12.

An assignment for Advertising ~~[and Sales Promotion]~~, Grades 9-12, is allowed with one of the following certificates.

- (1) Any marketing or distributive education certificate.
- (2) Marketing: Grades 6-12.
- (3) Marketing Education: Grades 8-12.
- (4) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (5) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (6) Vocational Trades and Industry. This assignment requires appropriate work approval.

~~§231.549. Retailing and E-tailing, Grades 9-12.~~

~~[An assignment for Retailing and E-tailing, Grades 9-12, is allowed with one of the following certificates.]~~

- ~~[(1) Any business or office education certificate.]~~
- ~~[(2) Any home economics or homemaking certificate.]~~
- ~~[(3) Any marketing or distributive education certificate.]~~
- ~~[(4) Business and Finance: Grades 6-12.]~~
- ~~[(5) Business Education: Grades 6-12.]~~
- ~~[(6) Family and Consumer Sciences, Composite: Grades 6-12.]~~
- ~~[(7) Hospitality, Nutrition, and Food Sciences: Grades 8-12.]~~
- ~~[(8) Marketing: Grades 6-12.]~~
- ~~[(9) Marketing Education: Grades 8-12.]~~

Division 24. Science, Technology, Engineering, and Mathematics, Grades 9-12 Assignments

§231.561. Principles [~~Concepts~~] of Applied Engineering [~~and Technology~~] , Grades 9-12.

An assignment for Principles [~~Concepts~~] of Applied Engineering [~~and Technology~~] , Grades 9-12, is allowed with one of the following certificates.

- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
- (2) Agricultural Science and Technology: Grades 6-12.
- (3) Any vocational agriculture certificate.
- (4) Health Science: Grades 6-12.
- (5) Health Science Technology Education: Grades 8-12.
- (6) Mathematics/Physical Science/Engineering: Grades 6-12.
- (7) Mathematics/Physical Science/Engineering: Grades 8-12.
- (8) Science, Technology, Engineering, and Mathematics: Grades 6-12.
- (9) Secondary Industrial Arts (Grades 6-12).
- (10) Secondary Industrial Technology (Grades 6-12).
- (11) Technology Education: Grades 6-12.
- (12) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (13) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (14) Vocational Health Occupations.
- (15) Vocational Health Science Technology.
- (16) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.563. Principles of Biosciences [~~Biotechnology~~] , Grades 9-12.

An assignment for Principles of Biosciences [~~Biotechnology~~] , Grades 9-12, is allowed with one of the following certificates.

- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
- (2) Agricultural Science and Technology: Grades 6-12.
- (3) Any vocational agriculture certificate.
- (4) Health Science: Grades 6-12.
- (5) Health Science Technology Education: Grades 8-12.
- (6) Mathematics/Physical Science/Engineering: Grades 6-12.
- (7) Mathematics/Physical Science/Engineering: Grades 8-12.
- (8) Science, Technology, Engineering, and Mathematics: Grades 6-12.
- (9) Secondary Industrial Technology (Grades 6-12).
- (10) Secondary Industrial Arts (Grades 6-12).
- (11) Technology Education: Grades 6-12.
- (12) Vocational Health Occupations.
- (13) Vocational Health Science Technology.

§231.565. ~~Advanced~~ Biotechnology I; Biotechnology II , Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for ~~Advanced~~ Biotechnology I or Biotechnology II , Grades 9-12, is allowed with one of the following certificates.
- (1) Agriculture, Food, and Natural Resources: Grades 6-12.
 - (2) Agricultural Science and Technology: Grades 6-12.
 - (3) Any vocational agriculture certificate.
 - (4) Health Science: Grades 6-12. This assignment requires a bachelor's degree.
 - (5) Health Science Technology Education: Grades 8-12. This assignment requires a bachelor's degree.
 - (6) Life Science: Grades 7-12.
 - (7) Life Science: Grades 8-12.
 - (8) Master Science Teacher (Grades 8-12).
 - (9) Science: Grades 7-12.
 - (10) Science: Grades 8-12.
 - (11) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (12) Secondary Biology (Grades 6-12).
 - (13) Secondary Science (Grades 6-12).
 - (14) Secondary Science, Composite (Grades 6-12).
 - (15) Vocational Health Occupations. This assignment requires a bachelor's degree.
 - (16) Vocational Health Science Technology. This assignment requires a bachelor's degree.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.567. Engineering Design and Presentation, Grades 9-12.

- (a) An assignment for Engineering Design and Presentation I or ~~Advanced~~ Engineering Design and Presentation II , Grades 9-12, is allowed with one of the following certificates.
- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (2) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (3) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (4) Secondary Industrial Arts (Grades 6-12).
 - (5) Secondary Industrial Technology (Grades 6-12).
 - (6) Technology Education: Grades 6-12.
 - (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (9) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Science, Technology, Engineering, and Mathematics or Extended Practicum in Science, Technology, Engineering, and Mathematics , Grades 9-12, is allowed with one of the following certificates.
- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (2) Mathematics/Physical Science/Engineering: Grades 8-12.

- (3) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (4) Secondary Industrial Arts (Grades 6-12).
 - (5) Secondary Industrial Technology (Grades 6-12).
 - (6) Technology Education: Grades 6-12.
 - (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
 - (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
 - (9) Vocational Trades and Industry. This assignment requires appropriate work approval.
- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Science, Technology, Engineering, and Mathematics or Extended Practicum in Science, Technology, Engineering, and Mathematics, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety.

§231.569. Engineering Mathematics ; Robotics II , Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Engineering Mathematics or Robotics II, Grades 9-12, is allowed with one of the following certificates.
- (1) Master Mathematics Teacher (Grades 8-12).
 - (2) Mathematics: Grades 7-12.
 - (3) Mathematics: Grades 8-12.
 - (4) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (5) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (6) Physics/Mathematics: Grades 7-12.
 - (7) Physics/Mathematics: Grades 8-12.
 - (8) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (9) Secondary Mathematics (Grades 6-12).
 - (10) Secondary Industrial Arts (Grades 6-12).
 - (11) Secondary Industrial Technology (Grades 6-12).
 - (12) Technology Education: Grades 6-12.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 [2013-2014] school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.571. AC/DC Electronics ; Solid State Electronics [~~or Robotics and Automation~~] , Grades 9-12.

An assignment for Electronics, AC/DC [Advanced] Electronics, or Solid State Electronics [~~or Robotics and Automation~~], Grades 9-12, is allowed with one of the following certificates.

- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
- (2) Mathematics/Physical Science/Engineering: Grades 8-12.
- (3) Science, Technology, Engineering, and Mathematics: Grades 6-12.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Education: Grades 6-12.
- (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.

- (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (9) Vocational Trades and Industry. This assignment requires appropriate work approval.

§231.573. Principles of Technology, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an ~~An~~ assignment for Principles of Technology, Grades 9-12, is allowed with one of the following certificates.
 - (1) Master Science Teacher (Grades 8-12).
 - (2) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (3) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (4) Physical Science: Grades 6-12.
 - (5) Physical Science: Grades 8-12.
 - (6) Physics/Mathematics: Grades 7-12.
 - (7) Physics/Mathematics: Grades 8-12.
 - (8) Science: Grades 7-12.
 - (9) Science: Grades 8-12.
 - (10) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (11) Secondary Industrial Arts (Grades 6-12).
 - (12) Secondary Industrial Technology (Grades 6-12).
 - (13) Secondary Physics (Grades 6-12).
 - (14) Secondary Science, Composite (Grades 6-12).
 - (15) Technology Education: Grades 6-12.
- (b) An assignment for Principles of Technology, Grades 9-12, may also be taught with a vocational agriculture certificate or a trades and industry certificate with verifiable physics applications experience in business and industry, if assigned prior to the 1998-1999 school year. Six semester credit hours of college physics, chemistry, or electricity/electronics may be substituted for the business and industry experience. All teachers assigned to these courses shall participate in Texas Education Agency-approved training prior to teaching these courses effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.575. Engineering Design and Problem Solving, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Engineering Design and Problem Solving, Grades 9-12, is allowed with one of the following certificates.
 - (1) Master Science Teacher (Grades 8-12).
 - (2) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (3) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (4) Physical Science: Grades 6-12.
 - (5) Physical Science: Grades 8-12.
 - (6) Physics/Mathematics: Grades 7-12.
 - (7) Physics/Mathematics: Grades 8-12.
 - (8) Science: Grades 7-12.
 - (9) Science: Grades 8-12.

- (10) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (11) Secondary Industrial Arts (Grades 6-12).
 - (12) Secondary Industrial Technology (Grades 6-12).
 - (13) Secondary Physics (Grades 6-12).
 - (14) Secondary Science (Grades 6-12).
 - (15) Secondary Science, Composite (Grades 6-12).
 - (16) Technology Education: Grades 6-12.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2013-2014 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.577. Scientific Research and Design, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an ~~[An]~~ assignment for Scientific Research and Design, Grades 9-12, is allowed with one of the following certificates.
- (1) Any vocational or career and technical education classroom teaching certificate with a bachelor's degree and 18 semester credit hours in any combination of sciences.
 - (2) Any science certificate valid for the grade level of the assignment.
 - (3) Master Science Teacher (Grades 8-12).
 - (4) Science, Technology, Engineering, and Mathematics: Grades 6-12.
- (b) All teachers assigned to this course shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.579. ~~[Principles of]~~ Engineering Science , Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for ~~[Principles of]~~ Engineering Science , Grades 9-12, is allowed with one of the following certificates.
- (1) Master Science Teacher (Grades 8-12).
 - (2) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (3) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (4) Physical Science: Grades 6-12.
 - (5) Physical Science: Grades 8-12.
 - (6) Physics/Mathematics: Grades 7-12.
 - (7) Physics/Mathematics: Grades 8-12.
 - (8) Science: Grades 7-12.
 - (9) Science: Grades 8-12.
 - (10) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (11) Secondary Industrial Arts (Grades 6-12).
 - (12) Secondary Industrial Technology (Grades 6-12).
 - (13) Secondary Physics (Grades 6-12).
 - (14) Secondary Science (Grades 6-12).
 - (15) Secondary Science, Composite (Grades 6-12).

- (16) Technology Education: Grades 6-12.
- (b) All teachers assigned to ~~[Principles of]~~ Engineering Science shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte .

§231.581. Digital Electronics, Grades 9-12.

- (a) Subject to the requirements in subsection (b) of this section, an assignment for Digital Electronics, Grades 9-12, is allowed with one of the following certificates.
- (1) Master Mathematics Teacher (Grades 8-12).
 - (2) Mathematics/Physical Science/Engineering: Grades 6-12.
 - (3) Mathematics/Physical Science/Engineering: Grades 8-12.
 - (4) Physics/Mathematics: Grades 7-12.
 - (5) Physics/Mathematics: Grades 8-12.
 - (6) Science, Technology, Engineering, and Mathematics: Grades 6-12.
 - (7) Secondary Industrial Arts (Grades 6-12).
 - (8) Secondary Industrial Technology (Grades 6-12).
 - (9) Secondary Mathematics (Grades 6-12).
 - (10) Technology Education: Grades 6-12.
- (b) All teachers assigned to Digital Electronics shall participate in Texas Education Agency-approved training prior to teaching this course effective with the 2018-2019 school year. Specific details about the required training can be found at tea.texas.gov/cte.

§231.583. Robotics I, Grades 9-12.

An assignment for Robotics I, Grades 9-12, is allowed with one of the following certificates.

- (1) Mathematics/Physical Science/Engineering: Grades 6-12.
- (2) Mathematics/Physical Science/Engineering: Grades 8-12.
- (3) Science, Technology, Engineering, and Mathematics: Grades 6-12.
- (4) Secondary Industrial Arts (Grades 6-12).
- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Applications: Early Childhood-Grade 12.
- (7) Technology Applications: Grades 8-12.
- (8) Technology Education: Grades 6-12.
- (9) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (10) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (11) Vocational Trades and Industry. This assignment requires appropriate work approval.

Division 25. Transportation, Distribution, and Logistics, Grades 9-12 Assignments**§231.591. Transportation, Distribution, and Logistics, Grades 9-12.**

- (a) An assignment for Energy, Power, and Transportation Systems; Aircraft Airframe Technology; Aircraft Powerplant Technology; Automotive Basics; Automotive Technology I: Maintenance and Light Repair; Automotive Technology II: Automotive Service; Advanced Transportation Systems Laboratory; Basic

Collision Repair and Refinishing; Collision Repair; Paint and Refinishing; Diesel Equipment Technology I; Diesel Equipment Technology II; Introduction to Aircraft Technology; Principles of Distribution and Logistics; Principles of Transportation Systems; Introduction to Transportation Technology; or Management of Transportation Systems [Logistics, Planning, and Management Systems; Principles of Transportation, Distribution, and Logistics; or Transportation Systems Management] , Grades 9-12, is allowed with one of the following certificates.

~~[(1) — Secondary Industrial Arts (Grades 6-12).]~~

~~[(2) — Secondary Industrial Technology (Grades 6-12).]~~

~~[(3) — Technology Education: Grades 6-12.]~~

(1) ~~[(4)]~~ Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.

(2) ~~[(5)]~~ Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.

(3) ~~[(6)]~~ Vocational Trades and Industry. This assignment requires appropriate work approval.

- (b) Subject to the requirements in subsection (c) of this section, an assignment for Practicum in Transportation Systems, Extended Practicum in Transportation Systems, Practicum in ~~[(1)]~~ Distribution ~~[(2)]~~ and Logistics, or Extended Practicum in Distribution and Logistics, Grades 9-12, is allowed with one of the following certificates.

~~[(1) — Secondary Industrial Arts (Grades 6-12).]~~

~~[(2) — Secondary Industrial Technology (Grades 6-12).]~~

~~[(3) — Technology Education: Grades 6-12.]~~

(1) ~~[(4)]~~ Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.

(2) ~~[(5)]~~ Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.

(3) ~~[(6)]~~ Vocational Trades and Industry. This assignment requires appropriate work approval.

- (c) The school district is responsible for ensuring that each teacher assigned to Practicum in Transportation Systems, Extended Practicum in Transportation Systems, Practicum in ~~[(1)]~~ Distribution ~~[(2)]~~ and Logistics, or Extended Practicum in Distribution and Logistics, Grades 9-12, has completed appropriate training in state and federal requirements regarding work-based learning and safety ~~[the content for this course]~~ .

§231.593. Aircraft Technology, Automotive Technology, or Collision Repair and Refinishing, Grades 9-12.

~~[An assignment for Aircraft Technology; Advanced Aircraft Technology; Automotive Technology; Advanced Automotive Technology; Collision Repair and Refinishing; or Advanced Collision Repair and Refinishing, Grades 9-12, is allowed with one of the following certificates.]~~

~~[(1) — Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.]~~

~~[(2) — Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.]~~

~~[(3) — Vocational Trades and Industry. This assignment requires appropriate work approval.]~~

§231.595. Small Engine Technology, Grades 9-12.

An assignment for Small Engine Technology I or ~~[Advanced]~~ Small Engine Technology II , Grades 9-12, is allowed with one of the following certificates.

(1) Agriculture, Food, and Natural Resources: Grades 6-12.

(2) Agricultural Science and Technology: Grades 6-12.

(3) Any vocational agriculture certificate.

(4) Secondary Industrial Arts (Grades 6-12).

- (5) Secondary Industrial Technology (Grades 6-12).
- (6) Technology Education: Grades 6-12.
- (7) Trade and Industrial Education: Grades 6-12. This assignment requires appropriate work approval.
- (8) Trade and Industrial Education: Grades 8-12. This assignment requires appropriate work approval.
- (9) Vocational Trades and Industry. This assignment requires appropriate work approval.