



State of California
Commission on Teacher Credentialing
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DESIGNATED SUBJECTS

CAREER TECHNICAL EDUCATION TEACHING CREDENTIAL

Based on SB 1104 - Issued on or after January 1, 2009

Effective January 1, 2009, Designated Subjects Career Technical Education (CTE) Teaching Credentials may be issued to individuals who meet the requirements for either the preliminary or clear credential as outlined below. All applications must be submitted for processing through a Commission-approved CTE program sponsor. See the Commission website for a list of [Commission-approved program sponsors](#).

Authorization

The *Preliminary* Designated Subjects CTE Teaching Credential authorizes the holder to teach in the subject or subjects named on the credential in grades twelve and below and in classes organized primarily for adults, in career technical, trade or vocational courses. The *Clear* Designated Subjects CTE Teaching Credential authorizes the holder to teach in the subject or subjects named on the credential in grades twelve and below and in classes organized primarily for adults, including services to English learners in Specially Designed Academic Instruction Delivered in English (SDAIE) in career technical, trade or vocational courses.

Available subjects, also known as *industry sectors*, are as follows:

- Agriculture and Natural Resources
- Arts, Media, and Entertainment
- Building and Construction Trades
- Business and Finance
- Education, Child Development, and Family Services
- Energy, Environment, and Utilities
- Engineering and Architecture
- Fashion and Interior Design
- Health Science and Medical Technology
- Hospitality, Tourism, and Recreation
- Information and Communication Technologies
- Manufacturing and Product Development
- Marketing, Sales, and Service
- Public Services
- Transportation

Requirements for the Three-Year Preliminary Credential

Individuals must satisfy **all** of the following requirements:

1. Three years of work experience directly related to each industry sector to be named on the credential. One year equals a minimum of 1000 clock hours and the experience may be full-time or part-time, paid or unpaid. See *Terms and Definitions* for additional information regarding the experience requirement.
2. High school diploma requirement by **one** of the following methods:
 - a. Possess a high school diploma
 - b. Possess a diploma based on passage of the GED Test
 - c. Possess the foreign equivalent of a high school diploma

3. Verification, signed by the Commission-approved program sponsor, that the applicant has been apprised of the requirements for both the preliminary and clear credentials, including the requirements of the program of personalized preparation
4. Completed application ([form 41-4](#))
5. Completed Live Scan receipt ([41-LS](#)), verifying fingerprints have been taken and fees have been paid, unless fingerprint clearance is already on file with the Commission
6. Application [processing fee](#)
7. Recommendation by a [Commission-approved CTE program sponsor](#)

Requirements for the Five-Year Clear Credential

Individuals must satisfy **all** of the following requirements:

1. Possess a valid California Preliminary CTE Teaching Credential (three-year or five-year)
2. Commission-approved program of personalized preparation that includes training in Specially Designed Academic Instruction Delivered in English (SDAIE)
3. Verify completion of **one** of the following:
 - a. Two years of successful teaching on the basis of the Preliminary CTE Teaching Credential in the industry sector(s) listed on the credential
 - b. A Commission-approved program of advanced personalized preparation as determined by the program sponsor agency
4. U.S. Constitution requirement by **one** of the following methods:
 - a. Complete a course (at least two semester units or three quarter units) in the provisions and principles of the U.S. Constitution. Submit a copy of the course description for evaluation purposes.
 - b. Pass an examination in the provisions and principles of the U.S. Constitution, given by a regionally-accredited college or university
5. Health education, including, but not limited to, the study of nutrition; the physiological and sociological effects of abuse of alcohol, narcotics, and drugs, and the use of tobacco. This requirement must also include training in cardiopulmonary resuscitation (CPR) that covers infant, child, and adult CPR skills.
6. Complete study in computer-based technology, including the uses of technology in educational settings
7. Completed application ([form 41-4](#))
8. Application [processing fee](#)
9. Recommendation by a [Commission-approved CTE program sponsor](#)

National Board for Professional Teaching Standards Certification

Teachers who are certified by the [National Board for Professional Teaching Standards](#) in the area of Early Adolescence through Young Adulthood/Career and Technical Education will be issued a Clear Designated Subjects Teaching Credential in their selected subject area. Individuals applying under this route are exempt from all other credential requirements.

Individuals may apply directly to the Commission for a clear teaching credential by submitting the following:

1. Photocopy of National Board Certification
2. Completed application ([form 41-4](#)) and, if not previously submitted to the Commission, a completed Live Scan receipt ([form 41-LS](#))
3. Appropriate application [processing fee](#)

Period of Validity

The preliminary credential is valid for three years. The clear credential is valid for five years and must be renewed online every five year renewal cycle. Once issued, there are no additional academic requirements to renew the clear credential.

Transition from Vocational Education and Five-Year CTE Teaching Credentials

Holders of Life or Clear Designated Subjects Vocational or CTE Teaching Credentials issued under previous regulations and statutes may choose to either maintain their documents or transition to CTE credentials issued under the provisions of SB 1104, outlined in this information leaflet. Due to significant changes to the program standards, holders of these credentials may not qualify for the Clear CTE Teaching Credential under the new program standards. For additional information, please see [Coded Correspondence 09-01](#).

Transition to New Industry Sectors

Effective September 1, 2014, five of the 15 Industry Sectors listed on the Designated Subjects CTE Teaching Credential will have new titles. The new Industry Sector titles will be issued on all first time, new type, and renewed Designated Subjects CTE Teaching Credentials on or after September 1, 2014.

A Preliminary or Clear Designated Subjects CTE Teaching Credential originally issued prior to September 1, 2014 based on an occupation that moved to a new Industry Sector remains valid and appropriate for the service aligned with their occupation. Employing agencies should confirm the original issuance date of the credential and use the Crosswalk Guidance Chart in *Appendix B* and/or Table 2 found in [Coded Correspondence 14-08](#) to determine if an educator's occupational experience is appropriate for their assigned Industry Sector.

The holder of a Preliminary Designated Subjects CTE Credential who completes a Clear program after September 1, 2014 has the option of keeping their original authorization or, if their occupation has moved, may transition to the new Industry Sector. Educators who elect to change Industry Sectors must work with their program sponsor to verify that the occupational training and experience held at the time the initial Preliminary CTE Credential was recommended was appropriate for the newly aligned Industry Sector. See the guidance chart in Appendix A of [Coded Correspondence 14-08](#). The previously issued Industry Sector authorization will be removed from their credential. Educators should confirm with their local employing agency whether any change in Industry Sector is necessary for employment purposes.

TERMS AND DEFINITIONS

Work Experience

Verification of work experience means written confirmation of the applicant's qualifying experience, signed by the applicant's past or present employer(s) on company letterhead that attests to and/or includes **all** of the following:

1. Employer's name, address, and telephone number
2. The working relationship of the person signing the verification to the applicant
3. Beginning and ending dates of employment

4. Complete description of duties
5. A statement as to whether or not the employment was full-time (If employment was less than full-time, an accounting of the number of hours the applicant was employed is required.)

If the applicant was self-employed or if the applicant's experience was avocational, verification shall include a statement, signed by the applicant under penalty of perjury, detailing the information described in 1–5 above, and must be further substantiated, in writing, by other person(s) having first-hand knowledge of the applicant's self-employment or avocation, such as the applicant's accountant, major supplier of goods, or major user of goods or services.

At least one year of the required work experience must be within the last five years, or two years within the last ten years, immediately preceding the issuance of the preliminary credential. 1000 clock hours shall be the minimum required for each year of work experience. Part-time work experience may be cumulated to equate to the required 1000 clock hours of work experience.

Completion of forty-eight (48) semester units of postsecondary vocational training related to the industry sector(s) named on the credential may be substituted for a maximum of two of the three years of required work experience. The course work must be verified by official transcript and may be made on a pro rata basis up to the two-year maximum.

Additionally, one of the following may be used as one year of work experience toward meeting the three years of required experience:

- Possession of an advanced industry certificate related to the industry sector to be named on the preliminary credential, as determined by a Commission-approved CTE program sponsor
- One year of full-time general education teaching experience providing instructional services in preschool or grades K-12 earned in a public or private school of equivalent status

An individual must have at least one year of actual work experience to qualify for the three-year preliminary credential.

[Click here for Professional Preparation Programs](#) or visit the Commission web site @ www.ctc.ca.gov.

Reference: California Education Code, Sections 44260 and 44260.1; 5 California Code of Regulations, Sections 80034.1 and 80034.2.

Industry Sectors

This chart is intended to be a guide. Some of the occupations, such as “drafting,” can be applied to more than one Industry Sector. Program sponsors are encouraged to examine the work experience of the individual applying for a credential and determine which Industry Sector best applies. Assignments should be considered in the same way. The most important consideration is the background and the expertise of the individual. Effective September 1, 2014, some Industry Sectors have new titles, while some specific occupations moved into different Industry Sectors. See [Coded Correspondence 14-08](#) for more information.

| Industry Sectors | Pathways | Specific Occupations |
|-----------------------------------|---|---|
| Agriculture and Natural Resources | <ul style="list-style-type: none"> • Agricultural Business • Agricultural Mechanics • Agriscience • Animal Science • Forestry and Natural Resources • Ornamental Horticulture • Plant and Soil Science | <ul style="list-style-type: none"> • Agriculture business management and marketing • Agriculture mechanics • Animal care • Animal control • Animal production • Crop production • Floriculture and floristry • Forestry, natural resources and rural recreation • Landscaping • Ornamental nursery operation |
| Arts, Media, and Entertainment | <ul style="list-style-type: none"> • Design, Visual, and Media Arts • Performing Arts • Production and Managerial Arts • Game Design and Integration | <ul style="list-style-type: none"> • Commercial art • Commercial photography • Game Design Occupations • Multimedia production • Performing arts occupations • Stage technology • Theatrical occupations |
| Building and Construction Trades | <ul style="list-style-type: none"> • Cabinetry, Millwork, and Woodworking • Engineering and Heavy Construction • Mechanical Systems Installation and Repair • Residential and Commercial Construction | <ul style="list-style-type: none"> • Boat building • Carpentry • Civil Engineer • Concrete placing and finishing • Construction equipment operation • Construction inspection • Drafting occupations • Drywall installation • Electrician • Fire sprinkler installation • Floor covering installation • Foundry work • Furniture making, finishing and refinishing • General contracting • Glazing • Hazardous materials occupations • Heating, air conditioning, and ventilation installation and service • Heavy Equipment Operator |

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| <p>Building and Construction Trades (cont.)</p> | | <ul style="list-style-type: none"> • Interior maintenance (residential and commercial) • Lathing • Masonry • Mechanical Engineer/Technician • Millwork and cabinet making • Motor sweeper operator • Painting-construction • Pipefitting and steam fitting • Plastering • Plumbing • Pool and spa service • Refrigeration installation and maintenance • Residential and commercial repair and remodeling • Roofing • Sheet metal fabrication • Structural and reinforcement ironwork • Structural pest control • Tile setting • Upholstering • Welding • Woodworking |
| <p>Business and Finance</p> | <ul style="list-style-type: none"> • Business Management • Financial Services • International Business | <ul style="list-style-type: none"> • Accounting occupations • Auditor • Banking • Business Computing Specialist • Business management • Chief Financial Officer • Customs Inspector/Broker • Export Sales • Financial management and services • Human Resources Specialist • Income tax preparation • Insurance occupations • International Business • Investment Consultant • Legal office occupations • Office occupations • Personnel administration occupations • Purchasing Agent • Secretarial/stenography occupations • Tax preparation specialist • Small business ownership and/or management |

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| <p>Education, Child Development, and Family Services</p> | <ul style="list-style-type: none"> • Child Development • Consumer Services • Education • Family and Human Services | <ul style="list-style-type: none"> • Child care • Child Care Psychologist • Consumer Services • Counselors • Education Administrators • Elderly care services (non-medical) • Family and human service occupations • Librarian • Personal Financial Advisor • Preschool Teacher • Social Outreach Director • Teacher • Teacher aide |
| <p>Energy, Environment, and Utilities</p> | <ul style="list-style-type: none"> • Energy and Power Technology • Environmental Resources • Telecommunications | <ul style="list-style-type: none"> • Air Quality Technician • Climatologist • Control system maintenance and repair • Electrical power distribution • Electrician • Electronic consumer products service • Electronics assembly • Energy Auditor • Energy Engineer • Energy, environment and resource manager/technician • Environmental Biologist/Scientist • Hybrid microelectronics • Hydroelectric plant operations • Industrial electronics • Marine power plant maintenance and repair • Solar Occupations • Telecommunications Technicians • Water treatment |
| <p>Engineering and Architecture</p> | <ul style="list-style-type: none"> • Architectural Design • Engineering Technology • Engineering Design • Environmental Engineering | <ul style="list-style-type: none"> • Air Pollution Control Engineer • Architect • City Planner • Drafting occupations • Engineering occupations • Environmental Specialist • Field Engineer • Manufacturing Design Engineer • Mechanical/Electrical Drafting • Robotics • Structural Designer • Surveying |

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| <p>Fashion and Interior Design</p> | <ul style="list-style-type: none"> • Fashion Design, and Merchandising • Interior Design, Furnishings, and Maintenance • Personal Services | <ul style="list-style-type: none"> • Barber* • Clothing, alteration and repair • Cosmetologist* • Esthetician* • Fabric maintenance services • Fashion Buyer • Fashion design • Fashion manufacturing (factory and custom) • Fashion merchandising • Interior Buyer • Interior design • Kitchen and Bath Specialist • Makeup Artist • Jewelry design, fabrication, and repair • Manicurist* • Merchandising Manager • Pattern Maker • Set Decorator • Textile design • Textile production and fabrication • Upholstering |
| <p>Health Science and Medical Technology</p> | <ul style="list-style-type: none"> • Biotechnology • Patient Care • Healthcare Administrative Services • Healthcare Operational Support Services • Public and Community Health • Mental and Behavioral Health | <ul style="list-style-type: none"> • Athletic trainer • Biomedical equipment technician • Biomedical Engineer • Biomedical Research and Development Specialist • Central Service Technician • Clinical Data Specialist • Clinical Lab Technologist/scientist • Clinical Simulator Technician • Forensic Pathologist • Community Health Professional • Geneticist • Diagnostic Technician • Dental Assistant • Dental Hygienist • Dental Lab Technician • Geriatric Technician • Health Care Administrator • Health Education Specialist • Health Information Management Technician/Technologist • Massage Therapist • Materials Manager • Medical/Clinical Assistant • Mental health professional • Medical Sonographer |

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| <p>Health Science and Medical Technology (cont.)</p> | | <ul style="list-style-type: none"> • Nutritionist/Dietician • Outreach Coordinator • Phlebotomist • Physician’s Assistant • Physical Therapy Technician/Technologist • Prosthetic Technician/Technologist • Psychiatric Technician/Psychologist • Public health professional • Nurse (RN/LVN/NP) • Radiological Technician • Rehabilitation Technologist/Therapist • Respiratory Technologist/Therapist • Sports Medicine Specialist • Ultrasound Technician |
| <p>Hospitality, Tourism, and Recreation</p> | <ul style="list-style-type: none"> • Food Science, Dietetics, and Nutrition • Food Service and Hospitality • Hospitality, Tourism, and Recreation | <ul style="list-style-type: none"> • Amusement and theme park occupations • Customer service representative related to amusement, theme parks, hotel and lodging, and restaurant and food service establishments • Dietetics and nutrition service • Event and conference planning • Executive Chef • Food and beverage production and preparation • Food and beverage services • Food scientist • Hotel and lodging occupations • Recreation and sports entertainment • Registered Dietitian • Restaurant Management |
| <p>Information and Communication Technology</p> | <ul style="list-style-type: none"> • Information Support and Services Networking • Software and Systems Development • Games and Simulation | <ul style="list-style-type: none"> • Big Data Administration • Computer and Information Systems • Computer Programming • Computer Sciences • Computer User Support • E-Business/E-Commerce • Game Production • Information Management • Information Security • Information Systems and Operations • Multimedia Production • Networking Engineer • Network Installation and Operation • Network Support and Maintenance • Robotics |

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| Information and Communication Technology (cont.) | | <ul style="list-style-type: none"> • Social and New Media Production and Management • Software and Applications Developer • Web and Mobile Application Production |
| Manufacturing and Product Development | <ul style="list-style-type: none"> • Graphic Production Technologies • Machining and Forming Technologies • Welding and Materials Joining • Product Innovation and Design | <ul style="list-style-type: none"> • Animator • CAD/CAM Specialist/Designer • Commercial Photographer • Commercial/Industrial Designer • Computer-assisted manufacturing • Computer Numerical Control (CNC) Operations • Cutter • Digital/Graphic Artist • Drafting occupations • Electronics assembly • Electronic publishing • Fitter • Industrial ceramics manufacturing • Machine tool operation and machine shop • Manufacturing Engineer • Metal fabrication • Material/Supply Management • Model Maker • Plastics and composites manufacturing occupations • Printing and graphics occupations • Product development, testing and demonstration • Production process/management • Quality Assurance • Robotics • Technical illustration • Tool and die making • Waterfront manufacturing • Welder • Welding Inspection • Welding Engineer |
| Marketing, Sales, and Services | <ul style="list-style-type: none"> • Marketing • Professional Sales • Entrepreneurship/Self-Employment | <ul style="list-style-type: none"> • Advertising Representative/Manager • Business Computer Specialist • Business Owner • Fashion Buyer • Floristry • Insurance Agent/Broker • International trade • Marketing • Market Research Analyst • Office Occupations • Public Relations Specialist |

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| Marketing, Sales, and Services (cont.) | | <ul style="list-style-type: none"> • Real estate • Retail occupations • Small business ownership and/or management • Small Business Repair and Maintenance • Travel Agent • Various Professional Sales Occupations |
| Public Services | <ul style="list-style-type: none"> • Public Safety • Emergency Response • Legal Practices | <ul style="list-style-type: none"> • Court reporting • Cyber Security • Emergency Medical Technician • Emergency Response Dispatcher • Fire control and safety • Fire fighting • Forester • Investigator/Law Librarian • Law enforcement occupations • Legal occupations (deletion of word to expand options) • Loss Prevention Specialist • Paralegal • Protective and security services • Wildland fire services |
| Transportation | <ul style="list-style-type: none"> • Operations • Structural Repair and Refinishing • Systems Diagnostics and Service | <ul style="list-style-type: none"> • Airframe and power plant mechanics • Automobile detailing • Automotive body repair and refinishing • Automotive brake installation and repair • Automotive electrical systems service and repair • Automotive heating and air-conditioning service • Automotive mechanics/technician • Automotive parts counterperson • Automotive suspension and steering repair • Automotive transmission and transaxle service and repair • Avionics • Bicycle repair • Claims Adjuster • Container Crane Operator • Diesel equipment mechanics • Dispatcher • Distribution Manager • Electric motor repair • Engine performance technician • Heavy equipment maintenance and repair • Industrial maintenance |

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| Transportation (cont.) | | <ul style="list-style-type: none"> • Inspectors and Planners • Investigator/Inspector • Marine power plant maintenance and repair • Motorcycle service and repair • Production, Planning, and Expediting Specialist • Railroad operations • Small engine service and repair • Transportation occupations, travel services • Truck and bus driving • Warehousing |
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Note: specific occupations marked with an asterisk () require a state license outside the purview of the Commission.*

Candidates applying based on National Board Certification in Career and Technical Education must select from the industry sectors shown below one that aligns with their area of certification.

| National Board Certification in Career and Technical Education Specialty Areas | Corresponding CTC Industry Sector(s) |
|---|---|
| Agriculture and Environmental Sciences | Agriculture and Natural Resources |
| Arts and Communications | Arts, Media, and Entertainment |
| Business, Marketing, Information Management, and Entrepreneurship | Business and Finance; Information and Communication Technologies; Marketing, Sales, and Services |
| Family and Consumer Sciences | Education, Child Development, and Family Services; Fashion and Interior Design; Hospitality, Tourism, and Recreation |
| Health Services | Business and Finance; Health Science and Medical Technology |
| Human Services | Education, Child Development, and Family Services; Public Services |
| Manufacturing and Engineering Technology | Building and Construction Trades; Energy, Environment, and Utilities; Engineering and Architecture; Manufacturing and Product Development; Transportation |
| Technology Education | Building and Construction Trades; Manufacturing and Product Development; Transportation |