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Commission on Teacher Credentialing  
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## Business and Industry Partnership Teacher Authorization

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### Authorization

The Business and Industry Partnership Teacher (BIPT) Authorization allows 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.

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 BIPT Authorization

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 will complete the early orientation to teaching portion of a CTE program
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](#)

### Period of Validity

The BIPT will expire at the end of the employing agency's school year and cannot be issued for more than one year. The end of the school year shall be no later than July 1. The permit is not renewable and may be issued to an individual only once.

## 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.

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.

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. 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 authorization.

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

*Reference: Title 5, Section 80034.3*

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

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

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

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

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

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

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

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