# Industry Credentials for Teachers Seeking an Initial Virginia License with Endorsement(s) in an Area of Career and Technical Education

**Guidance Document**

**§22.1-298.1 of the *Code of Virginia***

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Office of Career, Technical, and Adult Education

Updated May 2019

**INDUSTRY CREDENTIALS FOR TEACHERS  
SEEKING AN INITIAL VIRGINIA LICENSE WITH ENDORSEMENT(S) IN  
AN AREA OF CAREER AND TECHNICAL EDUCATION**

## **GUIDANCE DOCUMENT**

### BACKGROUND INFORMATION

Section § 22.1-298.1 of the Code of Virginia requires that every teacher seeking an initial license in the Commonwealth with an endorsement in the area of career and technical education shall have an industry certification credential in the area in which the teacher seeks endorsement. If a teacher seeking an initial license in the Commonwealth has not attained an industry certification credential in the area in which the teacher seeks endorsement, the Board may, upon request of the employing school division or educational agency, issue the teacher a provisional license to allow time for the teacher to attain such credential.

The *2019-2020* *Industry Credentials for Teachers Seeking an Initial Virginia License with Endorsement(s) in an Area of Career and Technical Education* [*Guidance Document*](http://doe.virginia.gov/instruction/career_technical/path_industry_certification/cte_credentials/industry-credentials-for-teachers-guidance-document.docx) is available on the Virginia Department of Education’s website. This document provides: (1) the teacher-eligible list of approved industry certification examinations; (2) name of the issuing organization; and (3) the specific career and technical education area(s), including the corresponding endorsement codes. The web-based list allows users to access contact information and details for each credentialing assessment.

Industry credentials that are eligible for teachers seeking an **initial** teaching license with endorsements in the area of career and technical education (CTE) are derived from the Virginia Board of Education-approved list of industry certifications, occupational competency assessments, and state licenses for high school students. For test validity and security reasons, not all issuing organizations allow teachers to take the student examinations.

In Virginia, industry credentials are defined as:

* State-issued professional license, required for entry into a specific occupation as determined by a Virginia state licensing agency (e.g., Licensed Practical Nurse (LPN), Emergency Medical Technician, Pharmacy Technician);
* Full Industry Certification, from a recognized industry, trade, or professional association validating essential skills of a particular occupation (A+ Certification Examinations, Microsoft Technology Associate (MTA), Microsoft Office Specialists (MOS)
* Pathway industry certification, from a recognized industry, trade, or professional association that validates essential skills of an industry. These certifications may consist of a suite of examinations from entry level to full certification (e.g., CISCO Certified Network Associate Examinations, A+ Certification Examinations, Automotive Service Excellence); and
* Occupational competency assessment, a national standardized assessment of skills/knowledge in a specific career and/or technical area (e.g., SkillsUSA, NOCTI).

To meet the Board of Education criteria and utilize the industry credentialing for the purpose of earning student-selected verified credit, the approved industry credentialing assessments must meet the following criteria:

* the test must be standardized and graded independently of the school or school division in which the test is given;
* the test must be knowledge-based;
* the test must be administered on a multistate or international basis, or administered as part of another state’s accountability assessment program;
* to be counted in a specific academic area, the test must measure content that incorporates or exceeds the Standards of Learning (SOL) content in the course for which verified credit is given;
* industry certification or licensure examinations that are approved to satisfy the requirements for the Board of Education’s Career and Technical Education Seal or the Board of Education’s Seal of Advanced Mathematics and Technology will satisfy requirements for student-selected verified credits;
* the teacher and/or the career and technical education program must be certified by the issuing organization relative to the industry certification or license; and
* a standard credit may not be verified more than once.

More than 400 state-issued professional licenses, industry certification examinations, and occupational competency assessments have been approved by the Virginia Board of Education. These certifications are reviewed and approved annually; credentials may be updated, added, or removed if they are outdated and no longer meet the Board’s goals. Experienced CTE teachers and industry panels are involved in the annual review process and provide recommendations that are presented to the Board of Education for approval.

### DIRECTIONS FOR SELECTING INDUSTRY CREDENTIALING ASSESSMENTS

There are eight broad career and technical education (CTE) areas: Agricultural Education; Business and Information Technology; Family and Consumer Sciences Education; Health and Medical Sciences Education; Marketing; Military Science; Technology Education; and Trade and Industrial Education. Within each broad CTE area there are specific endorsement areas for which teachers may apply for an **initial** Virginia teaching license (e.g., the endorsement areas within Agricultural Education are: Horticulture; Agriculture Machinery Service; Landscaping Technology; and Veterinary Aide).

Directions for obtaining information on the Board of Education-approved industry credentials that are eligible for teachers who are seeking an initial Virginia teaching license with an endorsement in an area of CTE are as follows:

* **Locate** the “broad” CTE area of interest in the chart.
* **Identify** the CTE endorsement area for which you are submitting an application for an initial teaching license to the Virginia Department Education, Division of Teacher Education and Licensure. (Refer to the third column, CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS.)
* **Click** on the name of an industry credential that matches the appropriate CTE endorsement area to obtain contact information and additional testing details. In many instances, several credentialing assessments may be listed from which you may choose one to complete.
* **Arrange** to take the credentialing assessment as directed by the issuing organization or testing provider.

If you have any questions about the teacher-eligible industry credentials, please contact the Virginia Department of Education, Office of Career, Technical, and Adult Education at [cte@doe.virginia.gov](mailto:cte@doe.virginia.gov) or by telephone at (804) 225-2052.

**INDUSTRY CREDENTIALS FOR TEACHERS**

**SEEKING AN INITIAL LICENSE WITH ENDORSEMENT(S) IN**

**AN AREA OF CAREER AND TECHNICAL EDUCATION**

### FREQUENTLY ASKED QUESTIONS

**Q1. Do I have to meet the industry credential requirement for licensure if I already hold an active Virginia teaching license with an endorsement in career and technical education, such as Marketing Education?**

**A1. The requirement is for teachers applying for initial licensure in Virginia on or after July 1, 2014. Since you have a Virginia teaching license that was issued before July 1, 2014, this licensure requirement does not apply to you.**

**Q2. Is there an option for a teacher seeking an initial Virginia license with an endorsement in an area of career and technical education who has not earned an industry credential in the area in which he/she seeks endorsement but has been offered employment by a Virginia public school division?**

**A2. Yes, the employing Virginia school division may request the Board of Education to issue a provisional (three-year nonrenewable) CTE teacher license. This provision will allow time for the CTE teacher to earn a Board-approved industry credential in the area of endorsement.**

**Q3. Is the approved list for teachers seeking an initial license the same as the Board-approved list for Virginia public high school students?**

**A3. No, the list of industry credentialing examinations for teachers seeking initial licensure with an endorsement in an area of career and technical education is not the exact same list as that approved for Virginia public high school students. For test validity and security reasons, not all issuing organizations allow teachers to take the student examinations.**

**Q4. Where can I learn more about the industry credentialing examinations and where they are administered?**

**A4. Information on all approved industry credentials for teachers seeking initial licensure with an endorsement in an area of career and technical education is linked to the** [**Virginia Department of Education website**](http://www.doe.virginia.gov/instruction/career_technical/path_industry_certification/index.shtml)**. By clicking on each industry credential in the chart, you may obtain additional testing information such as contacts for the issuing organization, examination cost, testing methods—online or paper/pencil, number of test items, testing accommodations, pre-test availability, and location(s) for taking the test.**

**Q5. How often is the list of industry credentials updated for teachers seeking initial licensure with an endorsement in an area of CTE?**

**A5. The Virginia Department of Education updates the teacher-eligible list annually (late spring) after the student list of industry, professional, trade association certification examinations and occupational competency assessments has been reviewed and approved by the Virginia Board of Education.**

**The update may consist of technical changes to the credential names, additions of new credentials, and deletions of outdated credentials. Industry, professional, and trade association certifications are continually being revised or discontinued to stay current with technology and new techniques. These changes may be such that individual certifications are no longer available, no longer meet the Board of Education’s criteria for diploma seals or student-selected verified credit, or require additional criteria such as work experience beyond high school.**

**Q6. How do I show proof of passing a Virginia Board of Education-approved industry credentialing examination for initial licensure?**

**A6. Upon successful completion of the industry certification examination, a certificate or other written documentation is provided by the issuing organization directly to the test taker. This certificate or documentation must be included in the** [**Application for Virginia License**](http://www.doe.virginia.gov/teaching/licensure/application.pdf)**. Additional information to assist teachers seeking initial licensure with an endorsement in the area of career and technical education can be accessed in the most current** [**Superintendent’s Memorandum.**](http://www.doe.virginia.gov/administrators/superintendents_memos/2015/202-15.shtml)

**VIRGINIA DEPARTMENT OF EDUCATION**

## **2019-2020 VIRGINIA TEACHER-ELIGIBLE INDUSTRY CREDENTIALING ASSESSMENTS**

**UPDATED MAY 2019**

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The *2019-2020* *Industry Credentials for Teachers Seeking an Initial Virginia License with Endorsement(s) in an Area of Career and Technical Education* [*Guidance Document*](http://doe.virginia.gov/instruction/career_technical/path_industry_certification/cte_credentials/industry-credentials-for-teachers-guidance-document.docx) is available on the Virginia Department of Education’s website. This document provides: (1) the teacher-eligible list of approved industry certification examinations; (2) name of the issuing organization; and (3) the specific career and technical education area(s), including the corresponding endorsement codes. The web-based list allows users to access contact information and details for each credentialing assessment.

| AGRICULTURAL EDUCATION NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
| --- | --- | --- |
| [A\*S\*K Concepts of Entrepreneurship and Management Assessment](http://cteresource.org/apg/credentials/concepts-of-entrepreneurship-and-management-assessment-4529) | ASK Business Institute/MBA Research and Curriculum Center | 8000 - Agricultural Education |
| [Canine Care & Training Program - Level 1 Certification Examination](http://cteresource.org/apg/credentials/canine-care-and-training-program-level-1-certification-examination-4435) | Continental Kennel Club, Inc. | 8000 - Agricultural Education  8622 - Veterinary Aide |
| [Certified Grounds Technician Test](http://cteresource.org/apg/credentials/certified-grounds-technician-test-4829) | Professional Grounds Management Society (PGMS) | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Certified Turfgrass Professional Examination](http://cteresource.org/apg/credentials/certified-turfgrass-professional-examination-4828) | Virginia Turfgrass Council | 8000 - Agricultural Education 8005 - Horticulture  8010 - Landscaping Technology |
| [Certified Veterinary Assistant (CVA) Examination](http://cteresource.org/apg/credentials/certified-veterinary-assistant-cva-examination-aah-4493) | American Allied Health (AAH) | 8000 - Agricultural Education 8622 - Veterinary Aide |
| [Certified Veterinary Assistant Examination](http://cteresource.org/apg/credentials/certified-veterinary-assistant-examination-4492) | Texas Veterinary Medical Association | 8000 - Agricultural Education 8622 - Veterinary Aide |
| [Certified Commercial Pesticide Applicator Examination](http://cteresource.org/apg/credentials/certified-commercial-pesticide-applicator-examination-4521) | Virginia Department of Agriculture and Consumer Services | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Certified Private Applicator Examination](http://cteresource.org/apg/credentials/certified-private-applicator-examination-4746) | Virginia Department of Agriculture and Consumer Services | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Certified Registered Technician Pesticide Applicator Examination](http://cteresource.org/apg/credentials/certified-registered-technician-pesticide-applicator-examination-4756) | Virginia Department of Agriculture and Consumer Services | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [EETCTechnician Certification Tests](http://cteresource.org/apg/credentials/eetc-technician-certification-tests-4563) (Pass any one test) | Equipment and Engine Training Council (EETC) | 8000 - Agricultural Education 8005 - Horticulture 8008 - Agriculture Machinery Service 8010 - Landscaping Technology  8418 - Small Engine Repair |
| [Equine Management and Evaluation Certification Examination](http://cteresource.org/apg/credentials/equine-management-and-evaluation-certification-examination-4823) | National Horse Judging Team Coaches’ Association (Administered by CEV Multimedia) | 8000 - Agricultural Education 8622 - Veterinary Aide |
| [Food Safety & Science Certification Examination](http://cteresource.org/apg/credentials/food-safety-science-certification-examination-4601) | American Meat Science Association (Administered by CEV Multimedia) | 8000 - Agricultural Education |
| [Fundamentals of Animal Science Certification Examination](http://cteresource.org/apg/credentials/fundamentals-of-animal-science-certification-examination-4607) | Elanco (Administered by CEV Multimedia) | 8000 - Agricultural Education  8622 - Veterinary Aide |
| [Greenhouse Operators Certification Examination](http://cteresource.org/apg/credentials/greenhouse-operators-certification-examination-4615) | Southeast Greenhouse Growers Association/Virginia Flower Growers Association | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Landscape Management Certification Examination](http://cteresource.org/apg/credentials/landscape-management-certification-examination-4651) | Green Industry Web Portal | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Master Service Technician Examinations](http://cteresource.org/apg/credentials/master-service-technician-examinations-4670) (Pass any one exam) | Briggs & Stratton Corporation | 8000 - Agricultural Education 8005 - Horticulture 8008 - Agriculture Machinery Service 8010 - Landscaping Technology |
| [Meat Evaluation Certification Examination](http://cteresource.org/apg/credentials/meat-evaluation-certification-examination-4671) | American Meat Science Association (Administered by CEV Multimedia) | 8000 - Agricultural Education |
| [Pet Sitters Certification Examination](http://cteresource.org/apg/credentials/pet-sitters-certification-examination-4726) | National Association Professional Pet Sitters (NAPPS) | 8000 - Agricultural Education 8622 - Veterinary Aide |
| [Plant Science Certification Examination](http://cteresource.org/apg/credentials/plant-science-certification-examination-4731) | Bayer CropScience (Administered by CEV Multimedia) | 8000 - Agricultural Education 8005 - Horticulture  8010 - Landscaping Technology |
| [Principles of Floral Design Certification Examination](http://cteresource.org/apg/credentials/principles-of-floral-design-certification-examination-4743) | Benz School of Floral Design (Administered by CEV Multimedia) | 8000 - Agricultural Education 8005 - Horticulture |
| [Principles of Livestock Selection and Evaluation Certification Examination](http://cteresource.org/apg/credentials/principles-of-livestock-selection-and-evaluation-certification-examination-4744) | National Collegiate Livestock Coaches Association (Administered by CEV Multimedia) | 8000 - Agricultural Education |
| [Professional Communications Certification Examination](http://cteresource.org/apg/credentials/professional-communications-certification-examination-4748) | Southwest Airlines (Administered by CEV Multimedia) | 8000 - Agricultural Education 8005 - Horticulture 8008 - Agriculture Machinery Service 8010 - Landscaping Technology  8622 - Veterinary Aide |
| [Turfgrass Management Certification Program Examination](http://cteresource.org/apg/credentials/turfgrass-management-certification-program-examination-4789) | Green Industry Web Portal | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Urban Forestry Certification Test](http://cteresource.org/apg/credentials/urban-forestry-certification-test-4792) | Green Industry Web Portal | 8000 - Agricultural Education 8005 - Horticulture 8010 - Landscaping Technology |
| [Veterinary Medical Applications Certification Examination](http://cteresource.org/apg/credentials/veterinary-medical-applications-certification-examination-4793) | Elanco (Administered by CEV Multimedia) | 8000 - Agricultural Education  8622 - Veterinary Aide |
| [W!SE Financial Literacy Certification Test](http://cteresource.org/apg/credentials/w-se-financial-literacy-certification-examination-4798) | Working in Support of Education (W!SE) | 8000 - Agricultural Education |

| BUSINESS AND INFORMATION TECHNOLOGY NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
| --- | --- | --- |
| [AAPC Medical Coding Examinations](http://cteresource.org/apg/credentials/aapc-medical-coding-examinations-4381) (Pass any one exam) | American Academy of Professional Coders (AAPC) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Adobe Certified Associate (ACA) Examinations](http://cteresource.org/apg/credentials/adobe-certified-associate-aca-examinations-4388) (Pass any one exam) | Adobe Systems Incorporated | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [App Development with Swift Level 1 Examination](http://cteresource.org/apg/credentials/app-development-with-swift-level-1-examination-4806) | Apple, Inc. | 6900 - Business and Information Technology |
| [Apple Certified iOS Technician Examination](http://cteresource.org/apg/credentials/apple-certified-ios-technician-examination-4807) | Apple, Inc. | 6900 - Business and Information Technology 6630 - Networking 8425 - Electronic Technology 8490 - Computer Systems Technology 9010 - Computer Technology |
| [Apple Certified Mac Technician Examination](http://cteresource.org/apg/credentials/apple-certified-mac-technician-examination-4808) | Apple, Inc. | 6900 - Business and Information Technology 6630 - Networking 8425 - Electronic Technology 8490 - Computer Systems Technology 9010 - Computer Technology |
| [Apple Certified Pro Examinations](http://cteresource.org/apg/credentials/apple-certified-pro-examinations-4817) (pass any one exam) (also listed in Trade and Industrial Education) | Apple, Inc. | 6900 - Business and Information Technology 6620 - Database Management 6630 - Networking |
| [Apple Certified Support Professional Examination](http://cteresource.org/apg/credentials/apple-certified-support-professional-examination-4809) | Apple, Inc. | 6900 - Business and Information Technology 6630 - Networking 8425 - Electronic Technology 8490 - Computer Systems Technology 9010 - Computer Technology |
| [A\*S\*K Fundamental Business Concepts Assessment](http://cteresource.org/apg/credentials/a-s-k-fundamental-business-concepts-assessment-4605) | ASK Business Institute/MBA Research and Curriculum Center | 6900 - Business and Information Technology 6910 - Medical Office Procedures 6920 - Legal Office Procedures |
| [A\*S\*K Concepts of Entrepreneurship and Management Assessment](http://cteresource.org/apg/credentials/concepts-of-entrepreneurship-and-management-assessment-4529) | ASK Business Institute/MBA Research and Curriculum Center | 6900 - Business and Information Technology |
| [Billing Coding Specialist Certification (BCSC) Examination](http://cteresource.org/apg/credentials/billing-coding-specialist-certification-bcsc-examination-4422) | American Medical Certification Association (AMCA) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Certified Electronic Health Record Specialist (CEHRS) Examination](http://cteresource.org/apg/credentials/certified-electronic-health-record-specialist-cehrs-examination-4450) | National Healthcareer Association (NHA) | 8624 - Medical Coding and Billing  6500 - Business Education - Stenography  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Certified Internet Web (CIW) Advanced HTML5 and CSS3 Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-advanced-html-5-and-css-3-specialist-examination-4456) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Data Analyst Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-data-analyst-examination-4457) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Database Design Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-database-design-specialist-examination-4458) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) E-Commerce Services Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-e-commerce-services-specialist-examination-4459) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Internet Business Associate Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-internet-business-associate-examination-4460) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) JavaScript Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-javascript-specialist-examination-4461) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Mobile Application Developer Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-mobile-application-developer-examination-4462) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Multimedia Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-multimedia-specialist-examination-4463) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Network Technology Associate Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-network-technology-associate-examination-4464) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Perl Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-perl-specialist-examination-4465) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Site Development Associate Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-site-development-associate-examination-4466) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Social Media Strategist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-social-media-strategist-examination-4467) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) User Interface Designer Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-user-interface-designer-examination-4468) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Web Design Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-web-design-specialist-examination-4469) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Internet Web (CIW) Web Security Specialist Examination](http://cteresource.org/apg/credentials/certified-internet-web-ciw-web-security-specialist-examination-4470) | Certification Partners, LLC | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Certified Medical Administrative Assistant (CMAA) Examination](http://cteresource.org/apg/credentials/certified-medical-administrative-assistant-cmaa-examination-4473) | National Healthcareer Association (NHA) | 8624 - Medical Coding and Billing  6500 - Business Education - Stenography  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Cisco Certified Entry Networking Technician (CCENT) Examination](http://cteresource.org/apg/credentials/cisco-certified-entry-networking-technician-ccent-examination-4495) | Cisco Systems, Inc. | 6630 - Networking |
| [Cisco Certified Networking Associate (CCNA) Cyber Ops Examination](http://cteresource.org/apg/credentials/cisco-certified-networking-associate-ccna-cyber-ops-examination-4496) | Cisco Systems, Inc. | 6630 - Networking 6900 - Business and Information Technology  8425 - Electronics Technology 8490 - Computer Systems Technology |
| [Certified Associate in Python Programming (PCAP) Examination](http://cteresource.org/apg/credentials/cisco-python-certified-associate-programmer-pcap-examination-4501) | Cisco Systems, Inc. | 6630 - Networking 6900 - Business and Information Technology  8425 - Electronics Technology 8490 - Computer Systems Technology |
| [Cloud Essentials Certification Examination](http://cteresource.org/apg/credentials/cloud-essentials-certification-examination-4503) | CompTIA | 6630 - Networking 6900 - Business and Information Technology  8425 - Electronics Technology 8490 - Computer Systems Technology |
| [Desktop Publishing Certification Tests](http://cteresource.org/apg/credentials/desktop-publishing-certification-tests-4554) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Electronic Health Record Certification (EHRC) Examination](http://cteresource.org/apg/credentials/electronic-health-record-certification-ehrc-examination-4572) | American Medical Certification Association (AMCA) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [IC3 Digital Literacy Certification Examination](http://cteresource.org/apg/credentials/ic3-digital-literacy-certification-examination-4631) | Certiport | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Intuit QuickBooks Certified User Certification Test](http://cteresource.org/apg/credentials/intuit-quickbooks-certified-user-certification-test-4650) | Certiport | 6900 - Business and Information Technology |
| [Linux+ Examinations—Powered by Linux Professional Institute (LPI)](http://cteresource.org/apg/credentials/linux-examinations-powered-by-linux-professional-institute-lpi-4657) (Must pass both exams) | CompTIA | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Medical Administration Assistant Certification (MAAC) Examination](http://cteresource.org/apg/credentials/medical-administration-assistant-certification-maac-examination-4677) | American Medical Certification Association (AMCA) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Medical Coding and Billing Specialist (MCBS) Examination](http://cteresource.org/apg/credentials/medical-coding-and-billing-specialist-mcbs-examination-4680) | American Allied Health (AAH) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Microsoft Office Specialist (MOS) Examinations](http://cteresource.org/apg/credentials/microsoft-office-specialist-mos-examinations-4683) (Pass any one exam) | Microsoft | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology 6910 - Medical Office Procedures 6920 - Legal Office Procedures |
| [Microsoft Technology Associate (MTA) Examinations](http://cteresource.org/apg/credentials/microsoft-technology-associate-mta-examinations-4684) (Pass any one exam) | Microsoft | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [National Certified Insurance and Coding Specialist (NCICS) Examination](http://cteresource.org/apg/credentials/national-certified-insurance-and-coding-specialist-ncics-examination-4692) | National Center for Competency Testing (NCCT) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Nationally Registered Certified Administrative Health Assistant (NRCAHA) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-administrative-health-assistant-nrcaha-examination-4699) | National Association for Health Professionals (NAHP) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Nationally Registered Certified Coding Specialist (NRCCS) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-coding-specialist-nrccs-examination-4700) | National Association for Health Professionals (NAHP) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Network+ Certification Examination](http://cteresource.org/apg/credentials/network-certification-examination-4713) | CompTIA | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Network Administration Certification Tests](http://cteresource.org/apg/credentials/network-administration-certification-tests-4710) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Network Pro Certification Examination](http://cteresource.org/apg/credentials/network-pro-certification-examination-4712) | Test Out Corporation | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Oracle Certified Associate Examinations](http://cteresource.org/apg/credentials/oracle-certified-associate-examinations-4718) (Pass any one exam) | Oracle Corporation | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Oracle Certified Junior Associate Examinations](http://cteresource.org/apg/credentials/oracle-certified-junior-associate-examinations-4719) (Pass any one exam) | Oracle Corporation | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [PC Pro Certification Examination](http://cteresource.org/apg/credentials/pc-pro-certification-examination-4722) | Test Out Corporation | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Security Pro Certification Examination](http://cteresource.org/apg/credentials/security-pro-certification-examination-4766) | Test Out Corporation | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Security+ Certification Examination](http://cteresource.org/apg/credentials/security-certification-examination-4767) | CompTIA | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Software Development Certification Tests](http://cteresource.org/apg/credentials/software-development-certification-tests-4774) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Systems Administration Certification Tests](http://cteresource.org/apg/credentials/systems-administration-certification-tests-4778) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Technical Support Certification Tests](http://cteresource.org/apg/credentials/technical-support-certification-tests-4782) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Web Administration Certification Tests](http://cteresource.org/apg/credentials/web-administration-certification-tests-4799) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [Web Design and Development Certification Tests](http://cteresource.org/apg/credentials/web-design-and-development-certification-tests-4800) (Pass any one test) | Brainbench | 6620 - Database Management 6630 - Networking 6900 - Business and Information Technology |
| [W!SE Financial Literacy Certification Test](http://cteresource.org/apg/credentials/w-se-financial-literacy-certification-examination-4798) | Working in Support of Education (W!SE) | 6900 - Business and Information Technology |

| FAMILY AND CONSUMER SCIENCES EDUCATION NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
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| [A\*S\*K Concepts of Entrepreneurship and Management Assessment](http://cteresource.org/apg/credentials/concepts-of-entrepreneurship-and-management-assessment-4529) | ASK Business Institute/MBA Research and Curriculum Center | 8200 - Family and Consumer Sciences |
| [Broad Field Family and Consumer Sciences Assessment](http://cteresource.org/apg/credentials/broad-field-family-and-consumer-sciences-assessment-4424) | American Association of Family and Consumer Sciences (AAFCS)  \*NOTE: This test may be taken at the annual Virginia Association for Teachers of Family and Consumer Sciences summer institute. | 8200 - Family and Consumer Sciences 8240 - Consumer Services - Day Care 8245 - Occupational Foods 8250 - Fashion Design & Merchandising 8251 - Child Care Occupations  8252 - Food Occupations  8253 - Interior Design Occupations 8254 - Family & Human Services 8535 - Culinary Arts |
| [Certified Front Desk Representative Examination](http://cteresource.org/apg/credentials/certified-front-desk-representative-examination-4453) (also listed in Marketing) | American Hotel and Lodging Educational Institute (AHLEI) | 8200 - Family and Consumer Sciences  8245 - Occupational Foods |
| [Certified Guest Service Professional Examination](http://cteresource.org/apg/credentials/certified-guest-service-professional-examination-4454) (also listed in Marketing) | American Hotel and Lodging Educational Institute (AHLEI) | 8200 - Family and Consumer Sciences  8245 - Occupational Foods |
| [Certified Hospitality and Tourism Management Professional Examination](http://cteresource.org/apg/credentials/certified-hospitality-and-tourism-management-professional-examination-4455)  (Must Pass Level 1 and Level 2) (also listed in Marketing) | American Hotel and Lodging Educational Institute (AHLEI) | 8200 - Family and Consumer Sciences 8245 - Occupational Foods |
| [Certified Restaurant Server Examination](http://cteresource.org/apg/credentials/certified-restaurant-server-examination-4487) | American Hotel and Lodging Educational Institute (AHLEI) | 8200 - Family and Consumer Sciences 8245 - Occupational Foods 8252 - Food Occupations  8535 - Culinary Arts |
| [Child Development Associate (CDA) Assessment](http://cteresource.org/apg/credentials/child-development-associate-cda-assessment-4494) | Child Development Associates (CDA) Council | 8200 - Family and Consumer Sciences 8240 - Consumer Services- Day Care 8251 - Child Care Occupations |
| [ManageFirst Credentialing Examinations](http://cteresource.org/apg/credentials/managefirst-credentialing-examinations-4662) (Pass any one exam) | National Restaurant Association | 8200 - Family and Consumer Sciences 8245 - Occupational Foods 8252 - Food Occupations  8535 - Culinary Arts |
| [ServSafe Manager Certification Examination](http://cteresource.org/apg/credentials/servsafe-manager-certification-examination-4769) | National Restaurant Association | 8200 - Family and Consumer Sciences 8245 - Occupational Foods 8252 - Food Occupations  8535 - Culinary Arts |
| [Skills, Tasks and Results Training (START) Certification Examination](http://cteresource.org/apg/credentials/skills-tasks-and-results-training-start-certification-examination-4770) | Hotel and Lodging Educational Institute (AHLEI) | 8200 - Family and Consumer Sciences 8245 - Occupational Foods 8252 - Food Occupations |
| [W!SE Financial Literacy Certification Test](http://cteresource.org/apg/credentials/w-se-financial-literacy-certification-examination-4798) | Working in Support of Education (W!SE) | 8200 - Family and Consumer Sciences |

| HEALTH AND MEDICAL SCIENCES EDUCATION NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
| --- | --- | --- |
| [AAPC Medical Coding Examinations](http://cteresource.org/apg/credentials/aapc-medical-coding-examinations-4381) (Pass any one exam) | American Academy of Professional Coders (AAPC) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Billing Coding Specialist Certification (BCSC) Examination](http://cteresource.org/apg/credentials/billing-coding-specialist-certification-bcsc-examination-4422) | American Medical Certification Association (AMCA) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Virginia Pharmacy Technician Examination](http://cteresource.org/apg/credentials/virginia-pharmacy-technician-examination-4441) | Virginia Board of Pharmacy | 8623 - Pharmacy Technician |
| [Certified Clinical Medical Assistant (CCMA) Examination](http://cteresource.org/apg/credentials/certified-clinical-medical-assistant-ccma-examination-4444) | National Healthcareer Association (NHA) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide |
| [Certified Coding and Billing Specialist (CBCS) Examination](http://cteresource.org/apg/credentials/certified-coding-and-billing-specialist-cbcs-examination-4445) | National Healthcareer Association (NHA) | 8624 - Medical Coding and Billing |
| [Certified Dental Assistant and National Entry Level Dental Assistant: Infection Control (ICE) Examination](http://cteresource.org/apg/credentials/certified-dental-assistant-and-national-entry-level-dental-assistant-infection-control-ice-examination-4446) | Dental Assisting National Board, Inc. | 8550 - Dental Aides |
| [Certified Dental Assistant and National Entry Level Dental Assistant: Radiation Health & Safety (RHS) Examination](http://cteresource.org/apg/credentials/certified-dental-assistant-and-national-entry-level-dental-assistant-radiation-health-and-safety-rhs-examination-4447) | Dental Assisting National Board, Inc. | 8550 - Dental Aides |
| [Certified Electronic Health Record Specialist (CEHRS) Examination](http://cteresource.org/apg/credentials/certified-electronic-health-record-specialist-cehrs-examination-4450) | National Healthcareer Association (NHA) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures  8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Certified EKG Technician (CET) Examination](http://cteresource.org/apg/credentials/certified-ekg-technician-cet-examination-aah-4448) | American Allied Health (AAH) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Certified EKG Technician (CET) Examination](http://cteresource.org/apg/credentials/certified-ekg-technician-cet-examination-nha-4449) | National Healthcareer Association (NHA) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide 8620 - Health and Medical Sciences |
| [Certified Emergency Telecommunicator Examination](http://cteresource.org/apg/credentials/certified-emergency-telecommunicator-examination-4452) | International Academies of Emergency Dispatch (IAED) | 8555 - Medical Assistant  8557 - Emergency Medical Technician  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Certified Clinical Medical Assistant (CCMA) Examination](http://cteresource.org/apg/credentials/certified-clinical-medical-assistant-ccma-examination-4444) | National Healthcareer Association (NHA) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Clinical Medical Assistant Certification (CMAC) Examination](http://cteresource.org/apg/credentials/clinical-medical-assistant-certification-cmac-examination-4502) | American Medical Certification Association (AMCA) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Certified Nurse Aide Examination](http://cteresource.org/apg/credentials/certified-nurse-aide-examination-4698) | Virginia Board of Nursing | 8600 - Practical Nursing  8610 - Nursing Aide |
| [Certified Optometric Assistant (COA) Examination](http://cteresource.org/apg/credentials/certified-optometric-assistant-coa-examination-4475) | American Allied Health (AAH) | 8549 - Vision Care Technician |
| [Certified Patient Care Technician (CPCT) Examination](http://cteresource.org/apg/credentials/certified-patient-care-technician-cpct-examination-aah-4476) | American Allied Health (AAH) | 8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Certified Patient Care Technician (CPCT/A) Examination](http://cteresource.org/apg/credentials/certified-patient-care-technician-cpct-a-examination-nha-4477) | National Healthcareer Association (NHA) | 8600 - Practical Nursing  8610 - Nursing Aide |
| [Certified Personal Trainer Examination](http://cteresource.org/apg/credentials/certified-personal-trainer-examination-4478) | National Academy of Sports Medicine (NASM) | 8617 - Sports Medicine/Athletic Trainer  8615 - Occupational/Physical Therapy Assistant |
| [Certified Pharmacy Technician (CPhT) Examination](http://cteresource.org/apg/credentials/certified-pharmacy-technician-cpht-examination-4826) | Pharmacy Technician Certification Board | 8623 - Pharmacy Technician |
| [Certified Pharmacy Technician (ExCPT) Examination](http://cteresource.org/apg/credentials/certified-pharmacy-technician-excpt-examination-nha-4480) | National Healthcareer Association (NHA) | 8623 - Pharmacy Technician |
| [Certified Phlebotomy Technician (CPT) Examination](http://cteresource.org/apg/credentials/certified-phlebotomy-technician-cpt-examination-aah-4481) | American Allied Health (AAH) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide 8620 - Health and Medical Sciences  8556 - Medical Laboratory Technician |
| [Certified Phlebotomy Technician (CPT) Examination](http://cteresource.org/apg/credentials/certified-phlebotomy-technician-cpt-examination-nha-4482) | National Healthcareer Association (NHA) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide 8620 - Health and Medical Sciences  8556 - Medical Laboratory Technician |
| [Certified Physical Therapy Aide (CPTA) Examination](http://cteresource.org/apg/credentials/certified-physical-therapy-aide-cpta-examination-4483) | American Allied Health (AAH) | 8615 - Occupational/Physical Therapy Assistant |
| [Certified Registered Central Service Technician (CRCST) Examination](http://cteresource.org/apg/credentials/certified-registered-central-service-technician-crcst-examination-4486) | International Association of Central Service Materials Management (IAHCSMM) | 8710 - Surgical Technology – Core Instructor  8554 - Sterile Processing Technician |
| [Certified Surgical Technologist (CST) Examination](http://cteresource.org/apg/credentials/certified-surgical-technologist-cst-examination-4490) | National Board of Surgical Technology and Surgical Assisting (NBSTSA) | 8710 - Surgical Technology - Core Instructor 8711 - Surgical Technology - Program Director |
| [Certified Veterinary Assistant Examination](http://cteresource.org/apg/credentials/certified-veterinary-assistant-examination-4492) | Texas Veterinary Medical Association | 8622 - Veterinary Aide |
| [Dental Support Technician Certification (DSTC) Examination](http://cteresource.org/apg/credentials/dental-support-technician-certification-dstc-examination-4552) | American Medical Certification Association (AMCA) | 8550 - Dental Aides |
| [EKG Technician Certification (ETC) Examination](http://cteresource.org/apg/credentials/ekg-technician-certification-etc-examination-4564) | American Medical Certification Association (AMCA) | 8555 - Medical Assistant  8557 - Emergency Medical Technician 8600 - Practical Nursing 8610 - Nursing Aide |
| [Electronic Health Record Certification (EHRC) Examination](http://cteresource.org/apg/credentials/electronic-health-record-certification-ehrc-examination-4572) | American Medical Certification Association (AMCA) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures  8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Emergency Medical Responder Examination](http://cteresource.org/apg/credentials/emergency-medical-responder-examination-4582) | Department of Health, Office of Emergency Medical Services | 8557 - Emergency Medical Technician |
| [Emergency Medical Technician Examination](http://cteresource.org/apg/credentials/emergency-medical-technician-examination-4584) | Department of Health, Office of Emergency Medical Services | 8557 - Emergency Medical Technician |
| [Limited Licensed Radiology Technologist (LLRT) Examination](http://cteresource.org/apg/credentials/limited-licensed-radiology-technologist-llrt-examination-4656) | American Allied Health (AAH) | 8558 - Radiologic Technology |
| [Medical Administration Assistant Certification (MAAC) Examination](http://cteresource.org/apg/credentials/medical-administration-assistant-certification-maac-examination-4677) | American Medical Certification Association (AMCA) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Medical Assistant Certification (MAC) Examination](http://cteresource.org/apg/credentials/medical-assistant-certification-mac-examination-4678) | American Medical Certification Association (AMCA) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide |
| [Medical Coding and Billing Specialist (MCBS) Examination](http://cteresource.org/apg/credentials/medical-coding-and-billing-specialist-mcbs-examination-4680) | American Allied Health (AAH) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Mental Health Technician Certification (MHTC) Examination](http://cteresource.org/apg/credentials/mental-health-technician-certification-mhtc-examination-4681) | American Medical Certification Association (AMCA) | 8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [National Certified Insurance and Coding Specialist (NCICS) Examination](http://cteresource.org/apg/credentials/national-certified-insurance-and-coding-specialist-ncics-examination-4692) | National Center for Competency Testing (NCCT) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [National Certified Medical Assistant (NCMA) Examination](http://cteresource.org/apg/credentials/national-certified-medical-assistant-ncma-examination-4693) | National Center for Competency Testing (NCCT) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [National Certified Patient Care Technician (NCPCT) Examination](http://cteresource.org/apg/credentials/national-certified-patient-care-technician-ncpct-examination-4694) | National Center for Competency Testing (NCCT) | 8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [National Certified Phlebotomy Technician (NCPT) Examination](http://cteresource.org/apg/credentials/national-certified-phlebotomy-technician-ncpt-examination-4695) | National Center for Competency Testing (NCCT) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide 8620 - Health and Medical Sciences  8556 - Medical Laboratory Technician |
| [National Entry Level Dental Assistant: Anatomy, Morphology and Physiology (AMP) Examination](http://cteresource.org/apg/credentials/national-entry-level-dental-assistant-anatomy-morphology-and-physiology-amp-examination-4696) | Dental Assisting National Board, Inc. | 8550 - Dental Aides |
| [Nationally Registered Certified Administrative Health Assistant (NRCAHA) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-administrative-health-assistant-nrcaha-examination-4699) | National Association for Health Professionals (NAHP) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Nationally Registered Certified Coding Specialist (NRCCS) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-coding-specialist-nrccs-examination-4700) | National Association for Health Professionals (NAHP) | 8624 - Medical Coding and Billing  6900 - Business and Information Technology  6910 - Medical Office Procedures  6000 - Bus. Educ.-General Office Procedures |
| [Nationally Registered Certified Dental Assistant (NRCDA) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-dental-assistant-nrcda-examination-4701) | National Association for Health Professionals (NAHP) | 8550 - Dental Aides |
| [Nationally Registered Certified EKG Technician (NRCEKGT) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-ekg-technician-nrcekgt-examination-4702) | National Association for Health Professionals (NAHP) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Nationally Registered Certified Medical Assistant (NRCMA) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-medical-assistant-nrcma-examination-4703) | National Association for Health Professionals (NAHP) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Nationally Registered Certified Patient Care Technician (NRCPCT) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-patient-care-technician-nrcpct-examination-4704) | National Association for Health Professionals (NAHP) | 8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Nationally Registered Certified Pharmacy Technician (NRCPhT) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-pharmacy-technician-nrcpht-examination-4705) | National Association for Health Professionals (NAHP) | 8623 - Pharmacy Technician |
| [Nationally Registered Certified Phlebotomy Technician (NRCPT) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-phlebotomy-technician-nrcpt-examination-4706) | National Association for Health Professionals (NAHP) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide 8620 - Health and Medical Sciences  8556 - Medical Laboratory Technician |
| [Nationally Registered Certified Surgical Technician (NRCST) Examination](http://cteresource.org/apg/credentials/nationally-registered-certified-surgical-technician-nrcst-examination-4707) | National Association for Health Professionals (NAHP) | 8710 - Surgical Technology - Core Instructor 8711 - Surgical Technology - Program Director |
| [Patient Care Technician Certification (PCTC) Examination](http://cteresource.org/apg/credentials/patient-care-technician-certification-pctc-examination-4721) | American Medical Certification Association (AMCA) | 8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Phlebotomy Technician Certification (PTC) Examination](http://cteresource.org/apg/credentials/phlebotomy-technician-certification-ptc-examination-4727) | American Medical Certification Association (AMCA) | 8555 - Medical Assistant 8600 - Practical Nursing 8610 - Nursing Aide 8556 - Medical Laboratory Technician |
| [Physical Therapy Aide Certification (PTAC) Examination](http://cteresource.org/apg/credentials/physical-therapy-aide-certification-ptac-examination-4730) | American Medical Certification Association (AMCA) | 8615 - Occupational/Physical Therapy Assistant |
| [Registered Medical Assistant (RMA) Examination](http://cteresource.org/apg/credentials/registered-medical-assistant-rma-examination-4755) | American Allied Health (AAH) | 8555 - Medical Assistant  8600 - Practical Nursing  8610 - Nursing Aide  8620 - Health and Medical Sciences |
| [Tech in Surgery-Certified (TS-C) Examination](http://cteresource.org/apg/credentials/tech-in-surgery-certified-ts-c-examination-4779) | National Center for Competency Testing (NCCT) | 8710 - Surgical Technology - Core Instructor 8711 - Surgical Technology - Program Director |

| MARKETING NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
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| [Advanced Customer Service and Sales Certification Assessment](http://cteresource.org/apg/credentials/advanced-customer-service-and-sales-certification-assessment-4389) | NRF Foundation | 8100 - Marketing Education 8110 - Apparel and Accessories 8130 - Hotel/Motel Operations 8140 - International Marketing 8170 - Sports/Entertainment/Recreation 8180 - Travel and Tourism |
| [A\*S\*K Concepts of Entrepreneurship and Management Assessment](http://cteresource.org/apg/credentials/concepts-of-entrepreneurship-and-management-assessment-4529) | ASK Business Institute/MBA Research and Curriculum Center | 8100 - Marketing Education 8140 - International Marketing |
| [A\*S\*K Concepts of Finance Assessment](http://cteresource.org/apg/credentials/concepts-of-finance-assessment-4530) | ASK Business Institute/MBA Research and Curriculum Center | 8100 - Marketing Education 8140 - International Marketing |
| [A\*S\*K Fundamental Marketing Concepts Assessment](http://cteresource.org/apg/credentials/fundamental-marketing-concepts-assessment-4606) | ASK Business Institute/MBA Research and Curriculum Center | 8100 - Marketing Education 8110 - Apparel and Accessories 8130 - Hotel/Motel Operations 8140 - International Marketing 8170 - Sports/Entertainment/Recreation 8180 - Travel and Tourism |
| [Certified Front Desk Representative Examination](http://cteresource.org/apg/credentials/certified-front-desk-representative-examination-4453) (also listed in Family & Consumer Sciences Education) | American Hotel and Lodging Educational Institute (AHLEI) | 8100 - Marketing Education 8130 - Hotel/Motel Operations  8180 - Travel and Tourism |
| [Certified Guest Service Professional Examination](http://cteresource.org/apg/credentials/certified-guest-service-professional-examination-4454) (also listed in Family & Consumer Sciences Education) | American Hotel and Lodging Educational Institute (AHLEI) | 8100 - Marketing Education 8130 - Hotel/Motel Operations  8180 - Travel and Tourism |
| [Certified Hospitality and Tourism Management Professional Examination](http://cteresource.org/apg/credentials/certified-hospitality-and-tourism-management-professional-examination-4455)  (Must Pass Level 1 and Level 2) (also listed in Family & Consumer Sciences Education) | American Hotel and Lodging Educational Institute (AHLEI) | 8100 - Marketing Education 8130 - Hotel/Motel Operations  8180 - Travel and Tourism |
| [Customer Service and Sales Certification Assessment](http://cteresource.org/apg/credentials/customer-service-and-sales-certification-assessment-4546) | NRF Foundation | 8100 - Marketing Education 8110 - Apparel and Accessories 8130 - Hotel/Motel Operations 8140 - International Marketing 8170 - Sports/Entertainment/Recreation 8180 - Travel and Tourism |
| [ManageFirst Credentialing Examinations](http://cteresource.org/apg/credentials/managefirst-credentialing-examinations-4662) (Pass any one exam) | National Restaurant Association | 8100 - Marketing Education 8130 - Hotel/Motel Operations |
| [Microsoft Office Specialist (MOS) Examinations](http://cteresource.org/apg/credentials/microsoft-office-specialist-mos-examinations-4683) (Pass any one exam) | Microsoft | 8100 - Marketing Education |
| [Retail Industry Fundamentals Certification Assessment](http://cteresource.org/apg/credentials/retail-industry-fundamentals-certification-assessment-4760) | NRF Foundation | 8100 - Marketing Education  8110 - Apparel and Accessories |
| [Skills, Tasks and Results Training (START) Certification Examination](http://cteresource.org/apg/credentials/skills-tasks-and-results-training-start-certification-examination-4770) | Hotel and Lodging Educational Institute (AHLEI) | 8100 - Marketing Education 8130 - Hotel/Motel Operations |
| [W!SE Financial Literacy Certification Test](http://cteresource.org/apg/credentials/w-se-financial-literacy-certification-examination-4798) | Working in Support of Education (W!SE) | 8100 - Marketing Education 8140 - International Marketing |

| MILITARY SCIENCE NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
| --- | --- | --- |
|  | NOTE: Qualification Training Certificate - issued by Junior Reserve Officers' Training Corps | 9000 - JROTC Instructor |

| TECHNOLOGY EDUCATION NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
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| [ArcGIS Desktop Entry Certification Examination](http://cteresource.org/apg/credentials/arcgis-desktop-entry-certification-examination-4401) | Environmental Systems Research Institute (ESRI) | 7200 - Technology Education |
| [Architectural Apprentice Drafter Examination](http://cteresource.org/apg/credentials/architectural-apprentice-drafter-examination-4402) (also listed in Trade and Industrial Education) | American Design Drafting Association (ADDA) | 7200 - Technology Education |
| [Architectural Certified Drafter Examination](http://cteresource.org/apg/credentials/architectural-certified-drafter-examination-4403) (also listed in Trade and Industrial Education) | American Design Drafting Association (ADDA) | 7200 - Technology Education |
| [Adobe Certified Associate (ACA) Examinations](http://cteresource.org/apg/credentials/adobe-certified-associate-aca-examinations-4388) (Pass any one exam) | Adobe Systems Incorporated | 7200 - Technology Education |
| [AutoCAD Certification Tests](http://cteresource.org/apg/credentials/autocad-certification-tests-4411) (Pass any one test) | Brainbench | 7200 - Technology Education |
| [Autodesk Certified Professional Examinations](http://cteresource.org/apg/credentials/autodesk-certified-professional-examinations-4412) (Pass any one exam) | Autodesk | 7200 - Technology Education |
| [Autodesk Certified User Examinations](http://cteresource.org/apg/credentials/autodesk-certified-user-examinations-4413) (Pass any one exam) | Autodesk | 7200 - Technology Education |
| [Desktop Publishing Certification Tests](http://cteresource.org/apg/credentials/desktop-publishing-certification-tests-4554) (Pass any one test) | Brainbench | 7200 - Technology Education |
| [Certified Logistics Associate (CLA) Examination](http://cteresource.org/apg/credentials/certified-logistics-associate-cla-examination-4471) | Manufacturing Skills Standards Council (MSSC) | 7200 - Technology Education |
| [Certified Logistics Technician (CLT) Associate Examination](http://cteresource.org/apg/credentials/certified-logistics-technician-clt-associate-examination-4472) | Manufacturing Skills Standards Council (MSSC) | 7200 - Technology Education |
| [Certified Production Technician (CPT) Program Examinations](http://cteresource.org/apg/credentials/certified-production-technician-cpt-program-examinations-4484) (Pass any one exam) | Manufacturing Skill Standards Council (MSSC) | 7200 - Technology Education |
| [Certified SOLIDWORKS Associate (CSWA) Examination](http://cteresource.org/apg/credentials/certified-solidworks-associate-cswa-examination-4489) | SOLIDWORKS Corporation | 7200 - Technology Education |
| [Digital Video Editor (DVE) Examination](http://cteresource.org/apg/credentials/digital-video-editor-dve-examination-4818) | Electronics Technicians Association (ETA), International | 7200 - Technology Education |
| [Energy Industry Fundamentals Certificate Assessment](http://cteresource.org/apg/credentials/energy-industry-fundamentals-certificate-assessment-4585) | Center for Energy Workforce Development | 7200 - Technology Education |
| [IC3 Digital Literacy Certification Examination](http://cteresource.org/apg/credentials/ic3-digital-literacy-certification-examination-4631) | Certiport | 7200 - Technology Education |
| [Manufacturing Specialist Certification Examination](http://cteresource.org/apg/credentials/manufacturing-specialist-certification-examination-4663) | Manufacturing Skills Institute | 7200 - Technology Education |
| [Manufacturing Technician Level 1 Certification Examination](http://cteresource.org/apg/credentials/manufacturing-technician-level-i-certification-examination-4664) | Manufacturing Skills Institute | 7200 - Technology Education |
| [Mechanical Apprentice Drafter Examination](http://cteresource.org/apg/credentials/mechanical-apprentice-drafter-examination-4672) (also listed in Trade and Industrial Education) | American Design Drafting Association (ADDA) | 7200 - Technology Education |
| [Mechanical Certified Drafter Examination](http://cteresource.org/apg/credentials/mechanical-certified-drafter-examination-4673) (also listed in Trade and Industrial Education) | American Design Drafting Association (ADDA) | 7200 - Technology Education |
| [Microsoft Office Specialist (MOS) Examinations](http://cteresource.org/apg/credentials/microsoft-office-specialist-mos-examinations-4683) (Pass any one exam) | Microsoft | 7200 - Technology Education |
| [Microsoft Technology Associate (MTA) Examinations](http://cteresource.org/apg/credentials/microsoft-technology-associate-mta-examinations-4684) (Pass any one exam) | Microsoft | 7200 - Technology Education |
| [Modeling and Simulation Certification Examination](http://cteresource.org/apg/credentials/modeling-simulation-certification-examination-4687) | National Center for Simulation | 7200 - Technology Education |
| [Pre-Engineering Certification Examinations](http://cteresource.org/apg/credentials/pre-engineering-certification-examinations-4740) | Robotics Education Competition (REC) Foundation- Hostedware Corporation | 7200 - Technology Education |
| [Robotics Certification Examinations](http://cteresource.org/apg/credentials/robotics-certification-examinations-4764) | Robotics Education Competition Foundation (RECF) | 7200 - Technology Education |
| [Mechatronic Systems Certification Examinations](http://cteresource.org/apg/credentials/mechatronic-systems-certification-examinations-4675) (Pass any one exam) | Siemens AG | 7200 - Technology Education |
| [Spatial Projects and Community Exchange (SPACE) Examination](http://cteresource.org/apg/credentials/spatial-projects-and-community-exchange-space-examination-4775) | Digital Quest, Inc. | 7200 - Technology Education |
| [Spatial Technology and Remote Sensing (STARS) Certification Examination](http://cteresource.org/apg/credentials/spatial-technology-and-remote-sensing-stars-certification-examination-4776) | Digital Quest, Inc. | 7200 - Technology Education |
| [Stratasys Additive Manufacturing Certification– Level 1 Examination](http://cteresource.org/apg/credentials/stratasys-additive-manufacturing-certification-level-1-examination-4827) | Stratasys | 7200 - Technology Education |
| [Unity Certified AssociateExamination](http://cteresource.org/apg/credentials/unity-certified-developer-examination-4791) | Unity Technologies | 7200 - Technology Education |

| TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL | **ISSUING ORGANIZATION** | **CAREER AND TECHNICAL EDUCATION (CTE) ENDORSEMENT AREAS** |
| --- | --- | --- |
| [A+ Certification Examination](http://cteresource.org/apg/credentials/a-certification-examination-4380) | CompTIA | 8425 - Electronics Technology  8490 - Computer Systems Technology  8560 - Printing |
| [Adobe Certified Associate (ACA) Examinations](http://cteresource.org/apg/credentials/adobe-certified-associate-aca-examinations-4388) (Pass any one exam) | Adobe Systems Incorporated | 8401 - Commercial Photography 8530 - Advertising Design  8563 - Graphic Imaging Technology  8625 - Television Production |
| [Air Conditioning Employment Ready Examination](http://cteresource.org/apg/credentials/air-conditioning-employment-ready-examination-4397) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Air Cooled Gasoline Engines Expert Technician Test](http://cteresource.org/apg/credentials/air-cooled-gasoline-engines-expert-technician-test-4398) | Kohler Engines | 8418 - Small Engine Repair |
| [Apple Certified Pro Examinations](http://cteresource.org/apg/credentials/apple-certified-pro-examinations-4817) (pass any one exam) (also listed in Business and Information Technology) | Apple, Inc. | 8625 - Television Production |
| [Architectural Apprentice Drafter Examination](http://cteresource.org/apg/credentials/architectural-apprentice-drafter-examination-4402) (also listed in Technology Education) | American Design Drafting Association (ADDA) | 8465 - Drafting |
| [Architectural Certified Drafter Examination](http://cteresource.org/apg/credentials/architectural-certified-drafter-examination-4403) (also listed in Technology Education) | American Design Drafting Association (ADDA) | 8465 - Drafting |
| [ASE Teacher Certification Examinations](http://cteresource.org/apg/credentials/ase-certification-examinations-4408) | National Institute for Automotive Service Excellence (ASE) | 8410 - Automotive Technology 8412 - Diesel Equipment Technology 8419 - Motor Sports Technology  8415 - Auto Body Repair |
| [AssociateCertified Electronics Technician Associate (CETa) Examination](http://cteresource.org/apg/credentials/certified-electronics-technician-associate-ceta-examination-4451) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology  8541 - Industrial Robotics |
| [Autodesk Certified Professional Examinations](http://cteresource.org/apg/credentials/autodesk-certified-professional-examinations-4412) (Pass any one exam) | Autodesk | 8465 - Drafting |
| [Autodesk Certified User Examinations](http://cteresource.org/apg/credentials/autodesk-certified-user-examinations-4413) (Pass any one exam) | Autodesk | 8465 - Drafting |
| [Avid Certified Professional for Media Composer Certification Examination](http://cteresource.org/apg/credentials/avid-certified-professional-for-media-composer-certification-examination-4417) | Avid | 8625 - Television Production 8563 - Graphic Imaging Technology  7200 - Technology Education |
| [Avid Certified User forMedia Composer Certification Examination](http://cteresource.org/apg/credentials/avid-certified-user-for-media-composer-certification-examination-4418) | Avid | 8625 - Television Production 8563 - Graphic Imaging Technology  7200 - Technology Education |
| [Basic Refrigeration & Charging Procedures Employment Ready Examination](http://cteresource.org/apg/credentials/basic-refrigeration-charging-procedures-employment-ready-examination-4421) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Building Science Principles Examination](http://cteresource.org/apg/credentials/building-science-principles-examination-4427) | Building Performance Institute | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Carbon Monoxide and Combustion Analysis Employment Ready Examination](http://cteresource.org/apg/credentials/carbon-monoxide-and-combustion-analysis-employment-ready-examination-4436) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Carbon Monoxide Safety Employment Ready Examination](http://cteresource.org/apg/credentials/carbon-monoxide-safety-employment-ready-examination-4437) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Carpentry Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/carpentry-level-one-entry-level-assessment-4440) | National Center for Construction Education & Research (NCCER) | 8430 - Building Trades 8431 - Carpentry 8434 - Cabinetmaking |
| [Certified Alarm Security Technician (CAST) Examination](http://cteresource.org/apg/credentials/certified-alarm-security-technician-cast-examination-4442) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Certified Broadcast Technologist (CBT) Examination](http://cteresource.org/apg/credentials/certified-broadcast-technologist-cbt-examination-4443) | The Society of Broadcast Engineers (SBE) | 8425 - Electronics Technology  8626 - Radio Communication  8625 - Television Production |
| [Certified Radio Operator (CRO) Examination](http://cteresource.org/apg/credentials/certified-radio-operator-cro-examination-4485) | The Society of Broadcast Engineers (SBE) | 8425 - Electronics Technology  8626 - Radio Communication |
| [Certified Satellite Installer (CSI) Examination](http://cteresource.org/apg/credentials/certified-satellite-installer-csi-examination-4488) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Certified Television Operator (CTO) Examination](http://cteresource.org/apg/credentials/certified-television-operator-cto-examination-4491) | The Society of Broadcast Engineers (SBE) | 8425 - Electronics Technology  8625 - Television Production |
| [Cisco Certified Entry Networking Technician (CCENT) Examination](http://cteresource.org/apg/credentials/cisco-certified-entry-networking-technician-ccent-examination-4495) | Cisco Systems, Inc. | 8425 - Electronics Technology  8490 - Computer Systems Technology |
| [Cisco Certified Networking Associate (CCNA) Cyber Ops Examination](http://cteresource.org/apg/credentials/cisco-certified-networking-associate-ccna-cyber-ops-examination-4496) | Cisco Systems, Inc. | 6630 - Networking 6900 - Business and Information Technology  8425 - Electronics Technology  8490 - Computer Systems Technology |
| [Cisco Certified Networking Associate (CCNA) Routing & Switching Examination](http://cteresource.org/apg/credentials/cisco-certified-networking-associate-ccna-routing-and-switching-examination-4497) | Cisco Systems, Inc. | 8425 - Electronics Technology  8490 - Computer Systems Technology  9010 - Computer Technology |
| [Cisco Certified Networking Associate (CCNA) Security Examination](http://cteresource.org/apg/credentials/cisco-certified-networking-associate-ccna-security-examination-4498) | Cisco Systems, Inc. | 8425 - Electronics Technology  8490 - Computer Systems Technology  9010 - Computer Technology |
| [Cisco Certified Networking Professional (CCNP) Routing and Switching Examination](http://cteresource.org/apg/credentials/cisco-certified-networking-professional-ccnp-routing-and-switching-examination-4499) (Must pass all 3 exams) | Cisco Systems, Inc. | 8425 - Electronics Technology  8490 - Computer Systems Technology  9010 - Computer Technology |
| [Cisco Certified Networking Professional (CCNP) Security Examination](http://cteresource.org/apg/credentials/cisco-certified-networking-professional-ccnp-security-examination-4500) | Cisco Systems, Inc. | 8425 - Electronics Technology  8490 - Computer Systems Technology  9010 - Computer Technology |
| [Cisco Certified Associate in Python Programming (PCAP) Examination](http://cteresource.org/apg/credentials/cisco-python-certified-associate-programmer-pcap-examination-4501) | Cisco Systems, Inc. | 6630 - Networking 6900 - Business and Information Technology  8425 - Electronics Technology  8490 - Computer Systems Technology |
| [Combustion Appliance Zone (CAZ) Employment Ready Examination](http://cteresource.org/apg/credentials/combustion-appliance-zone-caz-employment-ready-examination-4518) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [CompTIA IT Fundamentals**+** Certification Examination](http://cteresource.org/apg/credentials/comptia-it-fundamentals-certification-examination-4522) | CompTIA | 8425 - Electronics Technology  8490 - Computer Systems Technology |
| [Computer Service Technician (CST) Examination](http://cteresource.org/apg/credentials/computer-service-technician-cst-examination-4527) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology 8490 - Computer Systems Technology |
| [Construction Technologist Entry-Level Assessment](http://cteresource.org/apg/credentials/construction-technologist-entry-level-assessment-4534) | National Center for Constructional Education & Research (NCCER) | 8420 - Electricity  8426 - Building and Grounds Maintenance 8427 - Building Maintenance 8430 - Building Trades 8431 - Carpentry 8440 - Sheet Metal 8443 - Masonry  8510 - Plumbing 8580 - Welding |
| [Core: Introductory Craft Skills Entry-Level Assessment](http://cteresource.org/apg/credentials/core-introductory-craft-skills-entry-level-assessment-4535) | National Center for Construction Education & Research (NCCER) | 8420 - Electricity  8426 - Building and Grounds Maintenance 8427 - Building Maintenance 8430 - Building Trades 8431 - Carpentry 8440 - Sheet Metal 8443 - Masonry  8510 - Plumbing 8580 - Welding |
| [Cybersecurity Analyst (CSA+) Examination](http://cteresource.org/apg/credentials/cybersecurity-analyst-csa-examination-4549) | CompTIA | 6630 - Networking 6900 - Business and Information Technology  8425 - Electronics Technology  8490 - Computer Systems Technology |
| [Data Cabling Installer (DCI) Examination](http://cteresource.org/apg/credentials/data-cabling-installer-dci-examination-4550) | Electronics Technicians Association (ETA) International | 8420 - Electricity  8425 - Electronics Technology |
| [Electric Heat Employment Ready Examination](http://cteresource.org/apg/credentials/electric-heat-employment-ready-examination-4565) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Electrician Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/electrician-level-one-entry-level-assessment-4571) | National Center For Construction Education & Research (NCCER) | 8420 - Electricity  8430 - Building Trades |
| [Electronics Module: AC (EM2) Examination](http://cteresource.org/apg/credentials/electronics-module-ac-em2-examination-4575) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Electronics Module: Analog (EM3) Examination](http://cteresource.org/apg/credentials/electronics-module-analog-em3-examination-4576) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Electronics Module: Comprehensive Basic(EM5) Examination](http://cteresource.org/apg/credentials/electronics-module-comprehensive-em5-examination-4577) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Electronics Module: DC (EM1) Examination](http://cteresource.org/apg/credentials/electronics-module-dc-em1-examination-4578) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Electronics Module: Digital (EM4) Examination](http://cteresource.org/apg/credentials/electronics-module-digital-em4-examination-4579) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [EPA Technician Examinations](http://cteresource.org/apg/credentials/epa-technician-examinations-4587) (Pass Levels Core, I, II, III or Universal) | Environmental Protection Agency (Authorized Entity) | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration  8542 - Industrial Maintenance Technology |
| [Fiber Optics Installer (FOI) Examination](http://cteresource.org/apg/credentials/fiber-optics-installer-foi-examination-4594) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Firefighter I Certification Examination](http://cteresource.org/apg/credentials/firefighter-i-certification-examination-4597) | Virginia Department of Fire Programs | 8630 - Firefighting |
| [Firefighter II Certification Examination](http://cteresource.org/apg/credentials/firefighter-ii-certification-examination-4598) | Virginia Department of Fire Programs | 8630 - Firefighting |
| [Flux Core ArcWelding (FCAW) Examination](http://cteresource.org/apg/credentials/flux-core-arc-welding-fcaw-examination-4813) | American Welding Society (AWS) | 8580 - Welding 8000 - Agricultural Education 8008 - Agricultural Machinery Service |
| [Fuel Oil Consumption Employment Ready Examination](http://cteresource.org/apg/credentials/fuel-oil-combustion-employment-ready-examination-4604) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Gas Heat Employment Ready Examination](http://cteresource.org/apg/credentials/gas-heat-employment-ready-examination-4609) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Gas Metal ArcWelding Examination](http://cteresource.org/apg/credentials/gas-metal-arc-welding-examination-4814) | American Welding Society (AWS) | 8580 - Welding 8000 - Agricultural Education 8008 - Agricultural Machinery Service |
| [Gas Tungsten ArcWelding (GTAW) Examination](http://cteresource.org/apg/credentials/gas-tungsten-arc-welding-gtaw-examination-4815) | American Welding Society (AWS) | 8580 - Welding 8000 - Agricultural Education 8008 - Agricultural Machinery Service |
| [General Communications Technician - Level 1 (GCT1) Examination](http://cteresource.org/apg/credentials/general-communications-technician-level-1-gct1-examination-4610) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [General Radiotelephone Operator (GRO) Examination](http://cteresource.org/apg/credentials/general-radiotelephone-operator-gro-examination-4612) | Federal Communications Commission (FCC) | 8425 - Electronics Technology  8626 - Radio Communication |
| [Heat Pump Employment Ready Examination](http://cteresource.org/apg/credentials/heat-pump-employment-ready-examination-4619) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Heating, Electrical, Air Conditioning Technology (HEAT) Examinations](http://cteresource.org/apg/credentials/heating-electrical-air-conditioning-technology-heat-examinations-4620) (Pass any one exam) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Heavy Equipment Operator Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/heavy-equipment-operator-level-one-entry-level-assessment-4623) | National Center for Construction Education & Research (NCCER) | 8413 - Utility/Heavy Construction Technician 8416 - Heavy Equipment Operations |
| [HVAC Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/hvac-level-one-entry-level-assessment-4630) | National Center for Construction Education & Research (NCCER) | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Industrial Technology Maintenance - Level 1 Examinations](http://cteresource.org/apg/credentials/industrial-technology-maintenance-level-1-examinations-4636) (Pass any one exam) | National Institute for Metalworking Skills (NIMS) | 8542 - Industrial Maintenance Technology |
| [Installer (or Service) Core (HVAC/R) Examination](http://cteresource.org/apg/credentials/installer-or-service-core-hvac-r-examination-4637) | North American Technician Excellence, Inc. (NATE) | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [International Code Council Residential Building Inspector (B1) Examination](http://cteresource.org/apg/credentials/international-code-council-residential-building-inspector-b1-examination-4819) | International Code Council (ICC) | 8431 - Carpentry 8430 - Building Trades |
| [International Code Council Residential Electrical Inspector (E1) Examination](http://cteresource.org/apg/credentials/international-code-council-residential-electrical-inspector-e1-examination-4820) | International Code Council (ICC) | 8420 - Electricity 8430 - Building Trade |
| [International Code Council Residential Mechanical (HVAC) Inspector (M1) Examination](http://cteresource.org/apg/credentials/international-code-council-residential-mechanical-hvac-inspector-m1-examination-4821) | International Code Council (ICC) | 8515 - HVAC |
| [International Code Council Residential Plumbing Inspector (P1) Examination](http://cteresource.org/apg/credentials/international-code-council-residential-plumbing-inspector-p1-examination-4822) | International Code Council (ICC) | 8510 - Plumbing 8430 - Building Trades |
| [Light Commercial Refrigeration Employment Ready Examination](http://cteresource.org/apg/credentials/light-commercial-refrigeration-employment-ready-examination-4655) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Machining-Level 1 Examinations](http://cteresource.org/apg/credentials/machining-level-1-examinations-4660) (Pass any one exam with performance component) | National Institute for Metalworking Skills (NIMS) | 8451 - Precision Machine Technology |
| [Manufacturing Specialist Certification Examination](http://cteresource.org/apg/credentials/manufacturing-specialist-certification-examination-4663) | Manufacturing Skills Institute | 8451 - Precision Machine Technology  8542 - Industrial Maintenance Technology  8541 - Industrial Robotics |
| [Manufacturing Technician Level 1 Certification Examination](http://cteresource.org/apg/credentials/manufacturing-technician-level-i-certification-examination-4664) | Manufacturing Skills Institute | 8451 - Precision Machine Technology  8542 - Industrial Maintenance Technology  8541 - Industrial Robotics |
| [Masonry Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/masonry-level-one-entry-level-assessment-4669) | National Center for Construction Education & Research (NCCER) | 8443 - Masonry |
| [Master Service Technician Examinations](http://cteresource.org/apg/credentials/master-service-technician-examinations-4670) (Pass any one exam) | Briggs & Stratton Corporation | 8418 - Small Engine Repair |
| [Mechanical Apprentice Drafter Examination](http://cteresource.org/apg/credentials/mechanical-apprentice-drafter-examination-4672) (also listed in Technology Education) | American Design Drafting Association (ADDA) | 8465 - Drafting |
| [Mechanical Certified Drafter Examination](http://cteresource.org/apg/credentials/mechanical-certified-drafter-examination-4673) (also listed in Technology Education) | American Design Drafting Association (ADDA) | 8465 - Drafting |
| [Mechatronic Systems Certification Examinations](http://cteresource.org/apg/credentials/mechatronic-systems-certification-examinations-4675) (Pass any one exam) | Siemens AG | 8425 - Electronics Technology 8541 - Industrial Robotics |
| [Mobile Communications and Electronics Installer (MCEI) Examination](http://cteresource.org/apg/credentials/mobile-communications-and-electronics-installer-mcei-examination-4685) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology |
| [Mobile Electronics Certified Professional (MECP) Basic Installation Technician Examination](http://cteresource.org/apg/credentials/mobile-electronics-certified-professional-mecp-basic-installation-technician-examination-4686) | Consumer Electronics Association | 8425 - Electronics Technology |
| [Natural Gas Combustion Employment Ready Examination](http://cteresource.org/apg/credentials/natural-gas-combustion-employment-ready-examination-4708) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [Non-Structural Technician - ProLevel 1 Certification Test](http://cteresource.org/apg/credentials/non-structural-technician-prolevel-1-certification-test-4714) | ICAR | 8415 - Automotive Body Repair |
| [Photovoltaic Installer - Level 1 (PVI1) Examination](http://cteresource.org/apg/credentials/photovoltaic-installer-level-1-pvi1-examination-4729) | Electronics Technicians Association (ETA) International | 8420 - Electricity  8430 - Building Trades |
| [Plumbing Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/plumbing-level-one-entry-level-assessment-4734) | National Center for Construction Education & Research (NCCER) | 8430 - Building Trades  8510 - Plumbing |
| [Refinish Technician - ProLevel 1 Certification Test](http://cteresource.org/apg/credentials/refinish-technician-prolevel-1-certification-test-4754) | ICAR | 8415 - Automotive Body Repair |
| [Residential & Light Commercial Hydronic Heat Employment Ready Examination](http://cteresource.org/apg/credentials/residential-light-commercial-hydronic-heat-employment-ready-examination-4757) | HVAC Excellence | 8515 - Heating, Ventilation, Air Conditioning and Refrigeration |
| [SENSE Training Program Certification Examination (Level 1, Entry-Level Welder)](http://cteresource.org/apg/credentials/sense-training-program-certification-examination-level-1-entry-level-welder-4768) | American Welding Society (AWS) | 8580 - Welding |
| [Shielded Metal Arc Welding (SMAW) Examination](http://cteresource.org/apg/credentials/shielded-metal-arc-welding-smaw-examination-4816) | American Welding Society (AWS) | 8580 - Welding 8000 - Agricultural Education 8008 - Agricultural Machinery Service |
| [Telecommunications Electronics Technician (TCM) Examination](http://cteresource.org/apg/credentials/telecommunications-electronics-technician-tcm-examination-4784) | Electronics Technicians Association (ETA) International | 8425 - Electronics Technology 8490 - Computer Systems Technology |
| [Welding Level One Entry-Level Assessment](http://cteresource.org/apg/credentials/welding-level-one-entry-level-assessment-4804) | National Center for Construction Education & Research (NCCER) | 8580 - Welding |
|  | \*NOTE: For industry credentialing information for this endorsement area, please contact the Virginia Department of Education, Office of Career and Technical Education Services at [cte@doe.virginia.gov](mailto:cte@doe.virginia.gov) | \*8411 - Aviation Maintenance Technology |