



VIRGINIA BOARD OF EDUCATION

AGENDA ITEM

Agenda Item: M

Date: April 21, 2022

Title: First Review of Revisions to the List of 2022-2023 Board of Education Approved Industry Credentials, Occupational Competency Assessments, and Professional Licenses

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Purpose of Presentation:
Action required by Board of Education regulation.

Executive Summary:
The process for reviewing and validating industry credentials for the purpose of awarding verified credit for graduation is based on the following criteria: 1) the test must be standardized and graded independently of the school or school division in which the test is given; 2) the test must be knowledge based; 3) the test must be administered on a statewide, multistate or international basis, or administered as part of another state’s accountability assessment program; and 4) to be counted in a specific academic area, the test must measure content that incorporates or exceeds the Standards of Learning content in the course for which verified credit is given. Important to this process is ensuring that the credential is relevant and recognized in the workplace.

The 38 recommended industry or trade association certification examinations, professional licenses, and occupational competency assessments meet the Virginia Board of Education’s graduation requirements as identified for the Standard and Advanced Studies Diplomas in [8VAC20-131-51](#) (effective with the students who enter the ninth grade in the 2018-2019 school year). Students shall earn the required standard and verified units of credit described in subdivision two of the appropriate subsection.

The industry credentials starting on page seven meet the criteria to satisfy requirements for the Career and Technical Education (CTE) Seal and the Science, Technology, Engineering, and Mathematics (STEM) Seal.

Industry or trade association certification examinations, professional licenses, and occupational competency assessments are continually being revised or discontinued to stay current with technology and new techniques. Industry Credentialing providers have discontinued 41 previously approved certification examinations. Certifications that are recommended for deletion from the Board-approved list can be found starting on page nine. Currently, there are 449 Board-Approved industry or trade association certification examinations, professional licenses, and occupational competency assessments.

These changes may be such that individual certifications are no longer available or no longer meet the Board's criteria for the student-selected verified credit or the academic specific verified credit, the Standard Diploma's Career and Technical Education credential or the additional requirements for graduation in accordance with the Standards of Quality, and the diploma seals awards for exemplary student performance in Career and Technical Education and STEM.

This item aligns with Priority 1 in the Board's Comprehensive Plan - to provide high-quality, effective learning environments for all students.

Action Requested:

Other. Specify below:

The Board is requested to waive first review and approve the 38 additions to the Board of Education Approved Industry Certifications, Occupational Competency Assessments, and Professional Licenses and remove 41 previously approved credentials.

Superintendent's Recommendation

The Superintendent of Public Instruction recommends that the Board of Education waive first review and approve the 38 new industry certification examinations, occupational competency assessments, and professional licenses to meet the Board of Education's requirements for (1) graduation effective with the students who entered the ninth grade in the 2018-2019 school year, and (2) the Career and Technical Education and STEM Seals. Further, it is recommended the Board approve the removal of 41 credentials that are no longer offered by the providers.

Rationale for Action:

The Board's action is required to remain in compliance with the *Regulations Establishing Standards for Accrediting Public Schools in Virginia*. The Board reviews the list of industry credentials at its April meeting in order for the credentials to be made available to school divisions by July 1. Following the Board approval, the new credentialing list must be updated in Verso and Canvas/Virtual Virginia, the state's online repository of CTE courses and credentials. The details about each new credential including test and accommodations must be published.

Once published in July, it gives school divisions the opportunity to review the new credentials and courses for the following school year and make adjustments in their learning management systems.

Previous Review or Action:

Previous review or action. Specify date and action taken below:

Dates: September 28, 2000; April 26, 2001; April 24 & 25, 2002; May 28, 2003; June 25, 2003; February 25, 2004; February 23, 2005; November 30, 2005; November 29, 2006; January 10, 2008; January 15, 2009; January 14, 2010; February 17, 2011; May 24, 2012; June 27, 2013; April 24, 2014; April 23, 2015; April 28, 2016; May 25, 2017; April 26, 2018; April 25, 2019; May 7, 2020; and April 22, 2021.

Action: Technical changes, additions, and/or deletions were approved to the list of Board-approved certification examinations, assessments, and licenses.

Background Information and Statutory Authority:

The [Profile of a Virginia Graduate](#) illustrates the knowledge, skills, experiences, and attributes that students must obtain to be successful in college and/or the workforce and to be “life ready” and provides the framework for the requirements students must meet to earn a Standard Diploma or Advanced Studies Diploma.

The 2020 General Assembly approved, and the Governor signed, [HB 516](#) and [SB 112](#) pertaining to high school graduation requirements. The legislation provided additional requirements that:

“Require that students (i) complete an Advanced Placement, honors, or International Baccalaureate, or dual enrollment course; (ii) complete a high-quality work-based learning experience, as defined by the Board; or (iii) earn a career and technical education credential that has been approved by the Board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to earn credit. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, the Armed Services Vocational Aptitude Battery, or the Virginia workplace readiness skills assessment. The Department of Education shall develop, maintain, and make available to each local school board a catalogue of the testing accommodations available to English language learners for each such certification, examination, assessment, and battery. Each local school board shall develop and implement policies to require each high school principal or his designee to notify each English language learner of the availability of such testing accommodations prior to the student's participation in any such certification, examination, assessment, or battery.” [§ 22.1-253.13:4.D.6.](#)

Because of the emphasis and integral relationship of the career and technical education credentials to the requirements for students to earn a Standard Diploma or Advanced Studies Diploma, the Virginia Department of Education (VDOE) evaluates, on an ongoing basis, the industry credentials against prescribed criteria for these graduation requirements. The following statutory authority materials exhibit the importance and relevance of the career and technical education credentials to the graduation requirements:

[8 VAC20-131-110.C](#) – *Standard and Verified Units of Credit*

“The board may from time to time approve additional tests for the purpose of awarding verified credit. Such additional tests, which enable students to earn verified units of credit, must, at a minimum, meet the following criteria:

- 1. The test must be standardized and graded independently of the school or school division in which the test is given;*
- 2. The test must be knowledge based;*
- 3. The test must be administered on a statewide, multistate, or international basis, or administered as part of another state's accountability assessment program; and*
- 4. To be counted in a specific academic area, the test must measure content that incorporates or exceeds the Standards of Learning content in the course for which verified credit is given.*

The Regulations Establishing Standards for Accrediting Public Schools in Virginia, [8 VAC20-131-51.](#), Requirements for Graduation (Effective with the Students Who Enter the Ninth Grade in the 2018-2019 School Year)

[8 VAC20-131-51. B. 2.](#) – *Requirements for a Standard Diploma*

The requirements for a student to earn a diploma and graduate from a Virginia high school shall be those in effect when that student enters the ninth grade for the first time.

Beginning with the ninth-grade class of 2018-2019 and beyond, students shall earn the required verified units of credit related to the career and technical education industry credentials as follows:

“A laboratory science verified credit may be awarded to students who complete a career and technical education program sequence and (i) pass two examinations or occupational competency assessments in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, trade, or professional association; (ii) acquire two professional licenses in a career and technical education field from the Commonwealth of Virginia; or (iii) pass one examination or competency assessment from clause (i) and acquire one license from

clause (ii). The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.”

Additional Requirements for Graduation

“In accordance with the Standards of Quality, students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; (ii) complete a high-quality work-based learning experience, as established by board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the standard diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.”

8 VAC20-131-51. C.2. – *Requirements for an Advanced Studies Diploma*

The requirements for a student to earn a diploma and graduate from a Virginia high school shall be those in effect when that student enters the ninth grade for the first time. Beginning with the ninth-grade class of 2018-2019 and beyond, students earning an Advanced Studies Diploma must complete:

Additional Requirements for Graduation

“In accordance with the Standards of Quality, students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; (ii) complete a high-quality work-based learning experience as established by board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the advanced studies diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.”

8 VAC20-131-51. B. 2 – *A "verified unit of credit" or "verified credit" is a credit awarded for a course in which a student earns a standard unit of credit and (i) achieves a passing score on a corresponding end-of-course SOL test; (ii) achieves a passing score on an additional test, as defined in 8VAC20-131-5 as part of the Virginia Assessment Program; (iii) meets the criteria for*

the receipt of a locally awarded verified credit conferred in accordance with board criteria and guidelines as provided in [8VAC20-131-110 B 3](#) when the student has not passed a corresponding SOL test in English, mathematics, laboratory science, or history and social science; or (iv) meets the criteria for the receipt of a verified credit for English (writing) by demonstrating mastery of the content of the associated course on authentic performance assessments as provided in [8VAC20-131-110 B 4](#).

No more than one locally awarded verified credit may be used to satisfy these requirements, except as provided in subdivision 3 of this subsection for credit accommodations for students with disabilities.

[8 VAC20-131-51. H. 3](#) – Awards for exemplary student performance

Students who demonstrate academic excellence and outstanding achievement may be eligible for a career and technical education awards:

3. “The Board of Education's Career and Technical Education Seal shall be awarded to students who earn a Standard Diploma or an Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses; or (i) pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational competency credential from a recognized industry, trade or professional association or (ii) acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The board shall approve all professional licenses and examinations used to satisfy these requirements.”

[8 VAC 20-131-51. H. 4](#) – Awards for exemplary student performance

4. “The Board of Education's Science, Technology, Engineering, and Mathematics (STEM) Seal shall be awarded to students who meet criteria established by the board.”

Timetable for Further Review/Action:

After Board approval, the list will be posted on Town Hall, pursuant to the requirements of the Administrative Process Act. Additionally, the new credentialing list will be updated in Verso and Canvas/Virtual Virginia, the state’s online repository of CTE courses and credentials. The details about each new credential including test and accommodations must be published. Once published in July, it gives school divisions the opportunity to review the new credentials and courses for the following school year and make adjustments in their learning management systems. Further, a Superintendent’s Memorandum will notify school divisions of the technical changes and additions to and deletions from the list of industry certifications, occupational competency assessments, and licenses and will be posted on the VDOE website.

Impact on Fiscal and Human Resources:

State funds will be used to assist students to become certified. Federal Perkins CTE funds may be used to help teachers, programs, and students become certified.

**ADDITIONS TO THE BOARD-APPROVED INDUSTRY CREDENTIALS,
OCCUPATIONAL COMPETENCY ASSESSMENTS, AND PROFESSIONAL
LICENSES****Business and Information Technology**

1. **App Development with Swift Examinations (pass any one) (Apple)**
2. **Business Office Specialist Examination (Precision Exams)**
3. **CPA-C++ Certified Associate Programmer Certification Examination (C++ Institute)**
4. **Certified Ethical Hacker (CEH) Examination (EC-Council)**
5. **Certified Secure Computer User (CSCU) Examination (EC-Council)**
6. **CLA – C Programming Language Certified Associate Certification Examination (C++ Institute)**
7. **CLE – C Certified Entry-Level Programmer Certification Examination (C++ Institute)**
8. **Cloud+ Certification Examination (CompTIA)**
9. **CodeHS Cybersecurity Level 2 Certification Examination (CodeHS)**
10. **Coding in Minecraft Capstone Credential Examination (Certiport)**
11. **Information Technology Specialist Certification Examinations (pass any one) (Certiport)**
12. **Intuit Certified Bookkeeping Professional Certification Examination (Certiport)**
13. **JSA – Certified Associate JavaScript Programmer Examination (OpenEDG JavaScript Institute)**
14. **JSE – Certified Entry-Level JavaScript Programmer Examination (OpenEDG JavaScript Institute)**
15. **Oracle Certified Associate, Java SE 8 Programmer Examination (1Z0-808) (Oracle Academy)**
16. **Oracle Database SQL Certified Associate Examination (1Z0-071) (Oracle Academy)**
17. **PMI Project Management Ready Examination (Certiport)**

Health and Medical Sciences

1. **Certified Medical Laboratory Assistant (CMLA) Examination (American Medical Technologists (AMT))**

2. **National Certified ECG Technician (NCET) Examination (National Certificate Competency Testing (NCCT))**
3. **National Certified Medical Office Assistant (NCMOA) Examination (National Certificate Competency Testing (NCCT))**
4. **Patient Care Technician (PCT) Examination (American Medical Technologists (AMT))**
5. **Registered Dental Assistant (RDA) Examination (American Medical Technologists (AMT))**
6. **Registered Phlebotomy Technician (RPT) Examination (American Medical Technologists (AMT))**

Marketing

1. **Intuit Design for Delight Innovator Certification Examination (Certiport)**

Military Science

1. **JROTC Leadership and Employability Skills Assessment (NOCTI)**

Technology Education

1. **3DEXPERIENCE SOLIDWORKS Associate Academic Examination (SOLIDWORKS Corp.)**
2. **Autodesk Certified Associate in CAD for Mechanical Design Examination (Autodesk)**
3. **Autodesk Certified Expert in Generative Design for Manufacturing Examination (Autodesk)**
4. **Certified SOLIDWORKS Professional (CSWP) Examination (SOLIDWORKS Corp.)**
5. **GIS Fundamentals Foundation Examination (Environmental Systems Research Institute (ESRI))**
6. **Onshape Certified Associate Examination (Onshape, Inc.)**

Trade and Industrial Education

1. **Air Conditioning Service Examination (North American Technician Excellence (NATE))**
2. **Computer-Aided Manufacturing (CAM) – Level 1 Examinations (pass any one) (National Institute for Metalworking Skills Inc. (NIMS))**
3. **Gas Heating Service Examination (North American Technician Excellence (NATE))**
4. **Heat Pump Service Examination (North American Technician Excellence (NATE))**
5. **HVAC Excellence Specialty Certification Examinations (pass any one) (HVAC Excellence)**
6. **Non-Structural Technician Pro-Level 2 Certification Test (I-CAR)**

7. Refinish Technician Pro-Level 2 Certification Test (I-CAR)

**DELETIONS FROM THE BOARD-APPROVED INDUSTRY CREDENTIALS,
OCCUPATIONAL COMPETENCY ASSESSMENTS, AND PROFESSIONAL
LICENSES**

(Credentials discontinued or removed by providers)

Agriculture Education

- 1. Power Equipment Technology Examination (SkillsUSA)**

Business and Information Technology

- 1. App Development with Swift Level I Examination (Apple)**
- 2. Certified Internet Web (CIW) E-Commerce Services Specialist Examination (Certification Partners LLC)**
- 3. Microsoft Technology Associate (MTA) Examinations (Microsoft)**

Family and Consumer Sciences

- 1. Commercial Baking Examination (SkillsUSA)**
- 2. Culinary Arts Examination (SkillsUSA)**

Health and Medical Sciences

- 1. Nurse Assisting Examination (SkillsUSA)**

Technology Education

- 1. 3D Visualization & Animation Examination (SkillsUSA)**
- 2. Additive Manufacturing Fundamentals Examination (ToolingU-SME)**
- 3. ArcGIS Desktop Entry Certification Examination (Environmental Systems Research Institute (ESRI))**
- 4. Architectural Drafting Examination (SkillsUSA)**
- 5. Automated Manufacturing Technology Examination (SkillsUSA)**
- 6. Electronics Application/Electronics Technology Examination (SkillsUSA)**
- 7. Engineering Technology Examination (SkillsUSA)**
- 8. Logistics Technology/Distribution Center Services (NOCTI)**
- 9. Robotics and Automation Examination (SkillsUSA)**
- 10. Technical Drafting Examination (SkillsUSA)**

Trade and Industrial Education

- 1. Audio-Radio Production Examination (SkillsUSA)**
- 2. Cabinetmaking Examination (SkillsUSA)**

- 3. Carpentry Examination (SkillsUSA)**
- 4. Cisco Certified Networking Professional (CCNP) Automation for Cisco Enterprise Solutions Examination (Cisco Systems Inc.)**
- 5. Cisco Certified Networking Professional (CCNP) Cisco SD-WAN Solutions Examination (Cisco Systems Inc.)**
- 6. Cisco Certified Networking Professional (CCNP) Designing Cisco Enterprise Networks Examination (Cisco Systems Inc.)**
- 7. Cisco Certified Networking Professional (CCNP) Designing Enterprise Wireless Networks Examination (Cisco Systems Inc.)**
- 8. Cisco Certified Networking Professional (CCNP) Implementing Cisco Enterprise Advanced Routing & Services Examination (Cisco Systems Inc.)**
- 9. Cisco Certified Networking Professional (CCNP) Implementing and Operating Enterprise Network Core Technologies Examination (Cisco Systems Inc.)**
- 10. Cisco Certified Networking Professional (CCNP) Implementing Enterprise Wireless Networks Examination (Cisco Systems Inc.)**
- 11. CNC Milling and Turning Examination (SkillsUSA)**
- 12. Computer Maintenance Technology Examination (SkillsUSA)**
- 13. Cosmetology Examination (SkillsUSA)**
- 14. Criminal Justice and CSI Examination (SkillsUSA)**
- 15. Electrical Construction Wiring (Residential Wiring) Examination (SkillsUSA)**
- 16. Internetworking Examination (SkillsUSA)**
- 17. Marine Service Technology Examination (SkillsUSA)**
- 18. Masonry Examination (SkillsUSA)**
- 19. Motorcycle Service Technology Examination (SkillsUSA)**
- 20. Nail Care Examination (SkillsUSA)**
- 21. Photography Examination (SkillsUSA)**
- 22. Plumbing Examination (SkillsUSA)**
- 23. Television Video Production Examination (SkillsUSA)**
- 24. Welding Examination (SkillsUSA)**

2022-2023 BOARD OF EDUCATION APPROVED INDUSTRY CERTIFICATIONS, OCCUPATIONAL COMPETENCY ASSESSMENTS, AND PROFESSIONAL LICENSES

BOARD APPROVED / _____ (Date)

In accordance with [8VAC20-131-51. B.2](#), requirements for the Standard Diploma (effective with the students who enter the ninth grade in the 2018-2019 school year and beyond), a laboratory science verified credit may be awarded to students who complete a career and technical education program sequence and (i) pass two examinations or occupational competency assessments in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, trade, or professional association; (ii) acquire two professional licenses in a career and technical education field from the Commonwealth of Virginia; or (iii) pass one examination or competency assessment from clause (i) and acquire one license from clause (ii). The examination or occupational competency assessment must be approved by the board as an additional test to verify student achievement.

Per the Standards of Quality, a computer science course credit earned by students may be considered a career and technical course credit. [8VAC20-131-51. B.2 and C.2](#). (Standard and Advanced Studies Diplomas)

Additional Requirements for Graduation – [8VAC20-131-51. B.2 and C.2](#). (Standard and Advanced Studies Diplomas)

In accordance with the Standards of Quality ([§ 22.1-253.13:4.D.6](#)), students shall (i) complete an Advanced Placement, honors, International Baccalaureate, or dual enrollment course; (ii) complete a high-quality work-based learning experience, as established by board guidance on work-based learning; or (iii) earn a career and technical education credential approved by the board, except when a career and technical education credential in a particular subject area is not readily available or appropriate or does not adequately measure student competency, in which case the student shall receive satisfactory competency-based instruction in the subject area to satisfy the standard diploma requirements. The career and technical education credential, when required, could include the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness assessment.

Awards for Exemplary Student Performance. – [8VAC20-131-51. H.](#)

In accordance with [8VAC20-131-51. H.3](#), the Board of Education's Career and Technical Education Seal shall be awarded to students who earn a Standard Diploma or an Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses or (i) pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers

certification or occupational competency credential from a recognized industry, trade, or professional association or (ii) acquire a professional license in that career and technical education field from the Commonwealth of Virginia. The board shall approve all professional licenses and examinations used to satisfy these requirements.

In accordance with [8VAC20-131-51. H.4](#), the Board of Education's Science, Technology, Engineering, and Mathematics (STEM) Seal shall be awarded to students who meet criteria established by the board.

(For each of the tables below, items with an asterisk (*) and yellow highlighted background indicate new credentials.)

AGRICULTURAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Agricultural Biotechnology Assessment	NOCTI
Agriculture Mechanics Assessment	NOCTI
Agriculture Systems Technology I Examination	Precision Exams
Animal Science II Examination	Precision Exams
Animal Systems Assessment	NOCTI
BASF Plant Science Certification Examination	BASF (administered by CEV Multimedia)
Beef Quality Assurance Examination	Virginia Cooperative Extension/VT APSC
Canine Care and Training Program - Level 1 Certification Examination	Continental Kennel Club Inc.
Certified Grounds Technician Examination	Professional Grounds Management Society (PGMS)
Certified Turfgrass Professional Examination	Virginia Turfgrass Council
Certified Veterinary Assistant (CVA) Examination (AAH)	American Allied Health (AAH)
Certified Veterinary Assistant Examination (TVMA)	Texas Veterinary Medical Association
Chesapeake Bay Landscape Professional, Associate (CBLP-A) Examination	Chesapeake Conservation Landscaping Council

AGRICULTURAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Ecology Conservation & Management Certification Examination	Ducks Unlimited (DU)
EETC Technician Certification Tests (pass any one test)	Equipment and Engine Training Council (EETC)
Equine Management and Evaluation Certification Examination	National Horse Judging Team Coaches' Association (administered by CEV Multimedia)
Equine Science Examination	YouScience
Floriculture Assessment	NOCTI
Floriculture: Greenhouse Assessment	NOCTI
Food Safety & Science Certification Examination	American Meat Science Association (administered by CEV Multimedia)
Forest Products and Processing Assessment	NOCTI
Fundamentals of Animal Science Certification Examination	Elanco (administered by CEV Multimedia)
Greenhouse Operators Certification Examination	Virginia Greenhouse Growers Association
Horticulture/Landscaping Assessment	NOCTI
Landscape Management Certification Examination	Green Industry Web Portal
Master Service Technician Examinations (pass any one exam)	Briggs & Stratton Corp.
Meat Evaluation Certification Examination	American Meat Science Association (administered by CEV Multimedia)
Natural Resource Systems Assessment	NOCTI
Pet Sitters Certification Examination	National Association Professional Pet Sitters (NAPPS)
Principles of Floral Design Certification Examination	Benz School of Floral Design (administered by CEV Multimedia)
Principles of Livestock Selection & Evaluation Certification Examination	National Collegiate Livestock Coaches Association (administered by CEV Multimedia)

AGRICULTURAL EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Production Agriculture Assessment	NOCTI
Professional Communications Certification Examination	Southwest Airlines (administered by CEV Multimedia)
Small Animal Science and Technology Assessment	NOCTI
Small Engine Technology Assessment	NOCTI
Turfgrass Management Certification Program Examination	Green Industry Web Portal
Urban Forestry Certification Test	Green Industry Web Portal
Veterinary Medical Applications Certification Examination	Elanco (administered by CEV Multimedia)

BUSINESS AND INFORMATION TECHNOLOGY	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
A*S*K Fundamental Business Concepts Assessment	ASK Business Institute/MBA Research and Curriculum Center
Accounting—Advanced Assessment	NOCTI
Accounting—Basic Assessment	NOCTI
Administrative Assisting Assessment	NOCTI
Administrative Services Assessment	NOCTI
Adobe Certified Professional Examinations (pass any one exam)	Adobe Systems Inc.
* App Development with Swift Examinations (pass any one exam)	Apple
AWS Certified Cloud Practitioner Certification Examination	Amazon Web Services (AWS) (administered by PSI and Pearson VUE)
Banking and Related Services Assessment	NOCTI
Business Financial Management Assessment	NOCTI

BUSINESS AND INFORMATION TECHNOLOGY NAME OF CREDENTIAL	ISSUING ORGANIZATION
Business Information Processing Assessment	NOCTI
* Business Office Specialist Examination	Precision Exams
C++ Certified Entry-Level Programmer (CPE) Examination	C++ Institute
* CPA-C++ Certified Associate Programmer Certification Examination	C++ Institute
Certified Associate in Python Programming (PCAP) Examination	OpenEDG Python Institute
Certified Electronic Health Record Specialist (CEHRS) Examination	National Healthcareer Association (NHA)
Certified Entry-Level Python Programmer (PCEP) Examination	OpenEDG Python Institute
* Certified Ethical Hacker (CEH) Examination	E-C Council
Certified Internet Web (CIW) Advanced HTML5 and CSS3 Specialist Examination	Certification Partners LLC
Certified Internet Web (CIW) Data Analyst Examination	Certification Partners LLC
Certified Internet Web (CIW) Database Design Specialist Examination	Certification Partners LLC
Certified Internet Web (CIW) Internet Business Associate Examination	Certification Partners LLC
Certified Internet Web (CIW) JavaScript Specialist Examination	Certification Partners LLC
Certified Internet Web (CIW) Network Technology Associate Examination	Certification Partners LLC
Certified Internet Web (CIW) Site Development Associate Examination	Certification Partners LLC
Certified Internet Web (CIW) Social Media Strategist Examination	Certification Partners LLC
Certified Internet Web (CIW) User Interface Designer Examination	Certification Partners LLC
Certified Internet Web (CIW) Web Security Specialist Examination	Certification Partners LLC
Certified Medical Administrative Assistant (CMAA) Examination	National Healthcareer Association (NHA)

BUSINESS AND INFORMATION TECHNOLOGY NAME OF CREDENTIAL	ISSUING ORGANIZATION
* Certified Secure Computer User (CSCU) Examination	E-C Council
* CLA-C Programming Language Certified Associate Certification Examination	C++ Institute
* CPE-C Certified Entry-Level Programmer Certification Examination	C++ Institute
* Cloud+ Certification Examination	CompTIA
Cloud Essentials+ Certification Examination	CompTIA
* CodeHS Cybersecurity Level 2 Certification Examination	CodeHS
CodeHS Level 1 Certification Examinations (pass any one exam)	CodeHS
* Coding in Minecraft Capstone Credential Examination	Certiport
Communication Skills for Business Examination	Certiport
Computer Programming Assessment	NOCTI
Cyber Forensics Associate Examination	EC-Council
Ethical Hacking Associate Examination	EC-Council
Financial and Investment Planning Assessment	NOCTI
General Management Assessment	NOCTI
Human Resources Management Assessment	NOCTI
IC3 Digital Literacy Certification Examination	Certiport
* Information Technology Specialist Certification Examinations (pass any one exam)	Certiport
Interactive Media Assessment	NOCTI
* Intuit Certified Bookkeeping Professional Certification Examination	Certiport
Intuit QuickBooks Certified User Certification Test	Certiport

BUSINESS AND INFORMATION TECHNOLOGY NAME OF CREDENTIAL	ISSUING ORGANIZATION
IT Fundamentals Pro Examination	TestOut Corp.
* JSA-Certified Associate JavaScript Programmer Examination	* OpenEDG JavaScript Institute
* JSE-Certified Entry-Level JavaScript Programmer Examination	* OpenEDG JavaScript Institute
Linux+ Certification Examination	CompTIA
macOS Support Essentials Examination	Apple Inc.
Microsoft Certified Fundamentals Examinations (pass any one exam)	Microsoft
Microsoft Office Specialist (MOS) Examinations (pass any one exam)	Microsoft
Network+ Certification Examination	CompTIA
Network Pro Certification Examination	TestOut Corp.
* Oracle Certified Associates, Java SE 8 Programmer Examination	Oracle Academy
Oracle Certified Foundations Associate Examinations (pass any one exam)	Oracle Academy
* Oracle Database SQL Certified Associate Examination	Oracle Academy
PC Pro Certification Examination	TestOut Corp.
Personal Financial Literacy Certification Examination	Center for Financial Responsibility (CFR)
* PMI Project Management Ready Examination	Certiport
Security Pro Certification Examination	TestOut Corp.
Security+ Certification Examination	CompTIA
Virtual Enterprise Certification Assessment	Virtual Enterprise International (administered by NOCTI)
W!SE Financial Literacy Certification Test	Working in Support of Education (W!SE)
Web Design Assessment	NOCTI

CAREER READINESS CREDENTIALS	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
College and Work Readiness Assessment (CWRA+)	Council for Aid to Education
National Career Readiness Certificate Assessment	ACT Inc./WorkKeys
Workplace Readiness Skills for the Commonwealth Examination	Career and Technical Education Consortium of States (CTECS)

FAMILY AND CONSUMER SCIENCES EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Broad Field Family and Consumer Sciences Assessment	American Association of Family and Consumer Sciences (AAFCS)
Certified Breakfast Attendant Examination	American Hotel and Lodging Educational Institute (AHLEI)
Certified Front Desk Representative Examination (also listed in Marketing)	American Hotel and Lodging Educational Institute (AHLEI)
Certified Fundamentals Cook Assessment	American Culinary Federation Inc. (ACF) (administered by NOCTI)
Certified Fundamentals Pastry Cook Assessment	American Culinary Federation Inc. (ACF) (administered by NOCTI)
Certified Guestroom Attendant Examination	American Hotel and Lodging Educational Institute (AHLEI)
Certified Guest Service Professional Examination (also listed in Marketing)	American Hotel and Lodging Educational Institute (AHLEI)
Certified Hospitality and Tourism Management Professional Examination (Must Pass Level 1 and Level 2) (also listed in Marketing)	American Hotel and Lodging Educational Institute (AHLEI)

FAMILY AND CONSUMER SCIENCES EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Certified Kitchen Cook Examination	American Hotel and Lodging Educational Institute (AHLEI)
Certified Restaurant Server Examination	American Hotel and Lodging Educational Institute (AHLEI)
Child Development Associate (CDA) Assessment	The Council for Professional Recognition
Commercial Foods Assessment	NOCTI
Culinary Arts Assessment	American Association of Family and Consumer Sciences (AAFCS)
Culinary Arts Prep Cook Assessment	NOCTI
Early Childhood Development and Services Assessment	NOCTI
Early Childhood Education and Care—Advanced Assessment	NOCTI
Early Childhood Education and Care—Basic Assessment	NOCTI
Early Childhood Education Assessment	American Association of Family and Consumer Sciences (AAFCS)
Education and Training Assessment	NOCTI
Education Fundamentals Assessment	American Association of Family and Consumer Sciences (AAFCS)
Family and Community Services Assessment (AAFCS)	American Association of Family and Consumer Sciences (AAFCS)
Family and Community Services Assessment (NOCTI)	NOCTI
Fashion, Textiles, and Apparel Assessment	American Association of Family and Consumer Sciences (AAFCS)
Food Production Manager Certification Examination	Always Food Safe
Food Science Fundamentals Assessment	American Association of Family and Consumer Sciences (AAFCS)

FAMILY AND CONSUMER SCIENCES EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Hospitality Management—Food and Beverage Assessment	NOCTI
Hospitality Management—Lodging Assessment	NOCTI
Housing and Furnishings Assessment	American Association of Family and Consumer Sciences (AAFCS)
Interior Decorating and Design Assessment	NOCTI
Interior Design Fundamentals Assessment	American Association of Family and Consumer Sciences (AAFCS)
Leadership Essentials Assessment	American Association of Family and Consumer Sciences (AAFCS)
Nutrition, Food, and Wellness Assessment	American Association of Family and Consumer Sciences (AAFCS)
ParaPro Assessment	Educational Testing Service
Personal Care Services Assessment	NOCTI
Personal and Family Finance Certification Assessment	American Association of Family & Consumer Sciences (AAFCS)
Praxis Core Academic Skills for Educators Tests (pass all three tests) [Passing the Virginia Communication and Literacy Assessment (VCLA) Reading and Writing - may substitute for the Praxis Core Academic Skills for Educators Tests in Reading and Writing.]	Educational Testing Service <u>Evaluation System Group of Pearson (for VCLA)</u>
ProStart Certificate of Achievement Examinations (pass Level I and/or Level 2)	National Restaurant Association
Restaurant, Food and Beverage Services Assessment	NOCTI
ServSafe Food Protection Manager Certification Examination	National Restaurant Association

HEALTH AND MEDICAL SCIENCES EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
AAPC Medical Coding Examinations (pass any one exam)	American Academy of Professional Coders (AAPC)
Certified Clinical Medical Assistant (CCMA) Examination	National Healthcareer Association (NHA)
Certified Coding and Billing Specialist (CBCS) Examination	National Healthcareer Association (NHA)
Certified Dental Assistant and National Entry Level Dental Assistant: Infection Control (ICE) Examination	Dental Assisting National Board Inc.
Certified Dental Assistant and National Entry Level Dental Assistant: Radiation Health & Safety (RHS) Examination	Dental Assisting National Board Inc.
Certified EKG Technician (CET) Examination	American Allied Health (AAH)
Certified EKG Technician (CET) Examination	National Healthcareer Association (NHA)
Certified Emergency Telecommunicator Examination	International Academies of Emergency Dispatch (IAED)
Certified Group Fitness Instructor Examination	Athletics and Fitness Association of America
* Certified Medical Laboratory Assistant (CMLA) Examination	American Medical Technologists (AMT)
Certified Optometric Assistant (COA) Examination	American Allied Health (AAH)
Certified Patient Care Technician (CPCT) Examination	American Allied Health (AAH)
Certified Patient Care Technician (CPCT/A) Examination	National Healthcareer Association (NHA)
Certified Personal Trainer Examination	National Academy of Sports Medicine (NASM)
Certified Pharmacy Technician (CPhT) Examination	Pharmacy Technician Certification Board
Certified Phlebotomy Technician (CPT) Examination	American Allied Health (AAH)
Certified Phlebotomy Technician (CPT) Examination	National Healthcareer Association (NHA)
Certified Physical Therapy Aide (CPTA) Examination	American Allied Health (AAH)

HEALTH AND MEDICAL SCIENCES EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Certified Registered Central Service Technician (CRCST) Examination	International Association of Central Service Materials Management (IAHCSMM)
Certified Surgical Technologist (CST) Examination	National Board of Surgical Technology and Surgical Assisting (NBSTSA)
Clinical Medical Assistant Certification (CMAC) Examination	American Medical Certification Association (AMCA)
Dental Assisting Assessment	NOCTI
Dental Support Technician Certification (DSTC) Examination	American Medical Certification Association (AMCA)
Diagnostic Services Assessment	NOCTI
EKG Technician Certification (ETC) Examination	American Medical Certification Association (AMCA)
Electronic Health Record Certification (EHRC) Examination	American Medical Certification Association (AMCA)
Examination for Certification of Pharmacy Technicians (ExCPT)	National Healthcareer Association (NHA)
Health Assisting Assessment	NOCTI
Health Informatics Assessment	NOCTI
Home Health Aide Assessment	NOCTI
Limited Licensed Radiology Technologist (LLRT) Examination	American Allied Health (AAH)
Medical Administrative Assistant Certification (MAAC) Examination	American Medical Certification Association (AMCA)
Medical Assistant Certification (MAC) Examination	American Medical Certification Association (AMCA)
Medical Assisting Assessment	NOCTI
Medical Coder and Biller (MCBC) Certification Examination	American Medical Certification Association (AMCA)
Medical Coding and Billing Specialist (MCBS) Examination	American Allied Health (AAH)
Mental Health Technician Certification (MHTC) Examination	American Medical Certification Association (AMCA)

HEALTH AND MEDICAL SCIENCES EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
* National Certified ECG Technician (NCET) Examination	National Center for Competency Testing (NCCT)
National Certified Insurance and Coding Specialist (NCICS) Examination	National Center for Competency Testing (NCCT)
National Certified Medical Assistant (NCMA) Examination	National Center for Competency Testing (NCCT)
* National Certified Medical Office Assistant (NCMOA) Examination	National Center for Competency Testing (NCCT)
National Certified Patient Care Technician (NCPCT) Examination	National Center for Competency Testing (NCCT)
National Certified Phlebotomy Technician (NCPT) Examination	National Center for Competency Testing (NCCT)
National Entry Level Dental Assistant: Anatomy, Morphology and Physiology (AMP) Examination	Dental Assisting National Board Inc.
National Health Science Assessment	National Consortium for Health Science Education (administered by Precision Exams)
Nationally Registered Certified Administrative Health Assistant (NRCAHA) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Certified Coding Specialist (NRCCS) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Certified EKG Technician (NRCEKGT) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Certified Medical Assistant (NRCMA) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Certified Patient Care Technician (NRCPT) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Certified Pharmacy Technician (NRCPhT) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Certified Phlebotomy Technician (NRCPT) Examination	National Association for Health Professionals (NAHP)

HEALTH AND MEDICAL SCIENCES EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Nationally Registered Certified Surgical Technician (NRCST) Examination	National Association for Health Professionals (NAHP)
Nationally Registered Credentialed Dental Assistant (NRCDA) Examination	National Association for Health Professionals (NAHP)
Nursing Assisting Assessment	NOCTI
* Patient Care Technician (PCT) Examination	American Medical Technologists (AMT)
Patient Care Technician Certification (PCTC) Examination	American Medical Certification Association (AMCA)
Performance Enhancement Specialization (PES) Examination	National Academy of Sports Medicine (NASM)
Phlebotomy Technician Certification (PTC) Examination	American Medical Certification Association (AMCA)
Physical Therapy Technician Certification (PTTC) Examination	American Medical Certification Association (AMCA)
Practical Nursing Assessment	NOCTI
* Registered Dental Assistant (RDA) Examination	American Medical Technologists (AMT)
Registered Medical Assistant (RMA) Examination	American Allied Health (AAH)
* Registered Phlebotomy Technician (RPT) Examination	American Medical Technologists (AMT)
Tech in Surgery-Certified (TS-C) Examination	National Center for Competency Testing (NCCT)
Therapeutic Services Assessment	NOCTI

MARKETING	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
A*S*K Concepts of Entrepreneurship and Management Assessment	ASK Business Institute/MBA Research and Curriculum Center
A*S*K Concepts of Finance Assessment	ASK Business Institute/MBA Research and Curriculum Center

MARKETING	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
A*S*K Fundamental Marketing Concepts Assessment	ASK Business Institute/MBA Research and Curriculum Center
Business of Retail: Operations and Profit Examination	NRF Foundation
Certified Front Desk Representative Examination (also listed in Family & Consumer Sciences Education)	American Hotel and Lodging Educational Institute (AHLEI)
Certified Guest Service Professional Examination (also listed in Family & Consumer Sciences Education)	American Hotel and Lodging Educational Institute (AHLEI)
Certified Hospitality and Tourism Management Professional Examination (Must Pass Level 1 and Level 2) (also listed in Family & Consumer Sciences Education)	American Hotel and Lodging Educational Institute (AHLEI)
Customer Service and Sales Certification Assessment	NRF Foundation
Entrepreneurship and Small Business (ESB) Examination	Certiport
* Intuit Design for Delight Innovator Certification Examination	Certiport
Lodging Assessment	NOCTI
Recreation, Amusements, and Attractions Assessment	NOCTI
Retail Industry Fundamentals Certification Assessment	NRF Foundation
Retail Merchandising Assessment	NOCTI
Travel and Tourism Assessment	NOCTI

MILITARY SCIENCE	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Armed Services Vocational Aptitude Battery Examination	United States Military Entrance Processing Command

MILITARY SCIENCE	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
* JROTC Leadership and Employability Skills Assessment	NOCTI

TECHNOLOGY EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
* 3DEXPERIENCE SOLIDWORKS Associates Academic Examination	SOLIDWORKS Corp.
Architectural Apprentice Drafter Examination (also listed in Trade and Industrial Education)	American Design Drafting Association (ADDA)
Architectural Certified Drafter Examination (also listed in Trade and Industrial Education)	American Design Drafting Association (ADDA)
Architectural Drafting Assessment	NOCTI
* Autodesk Certified Associate in CAD for Mechanical Design Examination	Autodesk
* Autodesk Certified Expert in Generative Design for Manufacturing Examination	Autodesk
Autodesk Certified Professional Examinations (Pass any one exam)	Autodesk
Autodesk Certified User Examinations (pass any one exam)	Autodesk
Biotechnology Assessment	NOCTI
Business Certificate for Manufacturing Examination	Manufacturing Skills Institute
Certified Logistics Associate (CLA) Examination	Manufacturing Skills Standards Council (MSSC)
Certified Logistics Technician (CLT) Associate Examination	Manufacturing Skills Standards Council (MSSC)
Certified Robot-Operator 1 Assessment	FANUC America Corp.
Certified SOLIDWORKS Associate (CSWA) Examination	SOLIDWORKS Corp.

TECHNOLOGY EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
* Certified SOLIDWORKS Professional (CSWP) Examination	SOLIDWORKS Corp.
Digital Video Editor (DVE) Examination	Electronics Technicians Association (ETA), International
Electronics Technology Assessment	NOCTI
Energy Industry Fundamentals Certificate Assessment	Center for Energy Workforce Development
FAA Remote Pilot-Small Unmanned Aircraft Systems Certification Examination	PSI/True Talent Enterprise
* GIS Fundamentals Foundation Examination	Environmental Systems Research Institute (ESRI)
Laboratory Technician Certification Examination	Manufacturing Skills Institute (MSI)
Manufacturing Specialist Certification Examination	Manufacturing Skills Institute (MSI)
Manufacturing Technician Level 1 Certification Examination	Manufacturing Skills Institute (MSI)
Manufacturing Technology Assessment	NOCTI
Mechanical Apprentice Drafter Examination (also listed in Trade and Industrial Education)	American Design Drafting Association (ADDA)
Mechanical Certified Drafter Examination (also listed in Trade and Industrial Education)	American Design Drafting Association (ADDA)
Mechanical Drafting and Design Assessment	NOCTI
Modeling and Simulation Certification Examination	National Center for Simulation
* Onshape Certified Associate Examination	Onshape, Inc.
Performing Arts Assessment (also listed in Trade and Industrial Education)	NOCTI
Pre-Engineering Certification Examinations	Robotics Education Competition (REC) Foundation-Hostedware Corp.
Pre-Engineering/Engineering Technology Assessment	NOCTI

TECHNOLOGY EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Pre-Manufacturing Technician 1 (PreMT1) Examination	Manufacturing Skills Institute
Project Lead the Way End-of-Course Assessments (Pass any one end-of-course test)	Project Lead the Way
Rapid Prototyping & 3D Design Beginner Certification Examination	Digital Quest
Robotics Certification Examinations	Robotics Education Competition Foundation (RECF)
Smart Manufacturing and Advanced Robotics Training (SMART) Certification	Carnegie Mellon Robotics Academy
Spatial Projects and Community Exchange (SPACE) Examination	Digital Quest Inc.
Spatial Technology and Remote Sensing (STARS) Certification Examination	Digital Quest Inc.
Stratasys Additive Manufacturing Certification–Level 1 Examination	Stratasys
Unity Certified User Examinations (pass any one)	Unity Technologies

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
A+ Certification Examination	CompTIA
Advertising and Design Assessment	NOCTI
Air Conditioning Employment Ready Examination	HVAC Excellence
* Air Conditioning Service Examination	North American Technician Excellence (NATE)
Air Cooled Gasoline Engines Expert Technician Test	Kohler Engines
Architectural Apprentice Drafter Examination (also listed in Technology Education)	American Design Drafting Association (ADDA)

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Architectural Certified Drafter Examination (also listed in Technology Education)	American Design Drafting Association (ADDA)
ASE Certification Examinations (pass any one exam)	National Institute for Automotive Service Excellence
ASE Entry-Level Certification Tests (pass any one test)	National Institute for Automotive Service Excellence
Associate Certified Electronics Technician (CETa) Examination	Electronics Technicians Association (ETA) International
Audio-Visual Communications Assessment	NOCTI
Automotive Technician-Advanced Assessment	NOCTI
Automotive Technician-Core Assessment	NOCTI
Avid Certified Professional for Media Composer Certification Examination	Avid
Avid Certified User for Media Composer Certification Examination	Avid
Basic Refrigeration & Charging Procedures Employment Ready Examination	HVAC Excellence
Broadcasting and Journalism Assessment	NOCTI
Building Construction Occupations Assessment	NOCTI
Building Trades Maintenance Assessment	NOCTI
Cabinetmaking Assessment	NOCTI
CAD Assessment	NOCTI
CAD/CAM Assessment	NOCTI
Carbon Monoxide and Combustion Analysis Employment Ready Examination	HVAC Excellence
Carbon Monoxide Safety Employment Ready Examination	HVAC Excellence
Carpentry Assessment	NOCTI

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Carpentry Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
Certified Alarm Security Technician (CAST) Examination	Electronics Technicians Association (ETA) International
Certified Broadcast Technologist (CBT) Examination	The Society of Broadcast Engineers (SBE)
Certified Production Technician Program Examinations (pass any one exam)	Manufacturing Skill Standards Council (MSSC)
Certified Radio Operator (CRO) Examination	The Society of Broadcast Engineers (SBE)
Certified Satellite Installer (CSI) Examination	Electronics Technicians Association (ETA) International
Certified Television Operator (CTO) Examination	The Society of Broadcast Engineers (SBE)
Cisco Certified CyberOps Associate Examination	Cisco Systems Inc.
Cisco Certified DevNet Associate Examination	Cisco Systems Inc.
Cisco Certified Networking Associate (CCNA) Examination	Cisco Systems Inc.
Collision Repair and Refinishing Technology Assessment	NOCTI
Collision Repair Assessment	NOCTI
Combustion Appliance Zone Employment Ready Examination	HVAC Excellence
* Computer-Aided Manufacturing (CAM) – Level 1 Examinations (pass any one exam)	National Institute for Metalworking Skills Inc. (NIMS)
Computer Networking Fundamentals Assessment	NOCTI
Computer Repair Technology Assessment	NOCTI
Computer Service Technician (CST) Examination	Electronics Technicians Association (ETA) International
Computer Technology Assessment	NOCTI
Construction Assessment	NOCTI

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Construction Masonry—Block Assessment	NOCTI
Construction Masonry—Brick Assessment	NOCTI
Construction Technologist Entry-Level Assessment	National Center for Constructional Education & Research (NCCER)
Core: Introductory Craft Skills Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
Cosmetology Assessment	NOCTI
Criminal Justice Assessment	NOCTI
Customer Service Examination	SkillsUSA
Customer Service Specialist (CSS) Examination	Electronics Technicians Association (ETA) International
Cybersecurity Analyst (CSA+) Examination	CompTIA
Data Cabling Installer (DCI) Examination	Electronics Technicians Association (ETA) International
Design and Pre-Construction Assessment	NOCTI
Diesel Technology Assessment	NOCTI
Electric Heat Employment Ready Examination	HVAC Excellence
Electric Power and Distribution Assessment	NOCTI
Electrical Construction Technology Assessment	NOCTI
Electrical Employment Ready Examination	HVAC Excellence
Electrical Occupations Assessment	NOCTI
Electrician Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
Electronics Assessment	NOCTI

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Electronics Module: AC (EM2) Examination	Electronics Technicians Association (ETA) International
Electronics Module: Analog (EM3) Examination	Electronics Technicians Association (ETA) International
Electronics Module: Comprehensive Basic (EM5) Examination	Electronics Technicians Association (ETA) International
Electronics Module: DC (EM1) Examination	Electronics Technicians Association (ETA) International
Electronics Module: Digital (EM4) Examination	Electronics Technicians Association (ETA) International
Emergency and Fire Management Services Assessment	NOCTI
Emergency Medical Services Assessment	NOCTI
EPA Technician Examinations (pass any one exam)	Environmental Protection Agency (Authorized Entity)
Festo NC3 Introduction to Mechatronics STEM Lab Certification	NC3 National Coalition of Certification Centers
Festo NC3 Level 1: Fundamentals Certifications (pass any one)	NC3 National Coalition of Certification Centers
Fiber Optics Installer (FOI) Examination	Electronics Technicians Association (ETA) International
Firefighter I Certification Examination	Virginia Department of Fire Programs
Firefighter II Certification Examination	Virginia Department of Fire Programs
Flux Core Arc Welding (FCAW) Examination	American Welding Society (AWS)
Fuel Oil Combustion Employment Ready Examination	HVAC Excellence
Fundamentals of Construction Assessment	NOCTI
Gas Heat Employment Ready Examination	HVAC Excellence
* Gas Heating Service Examination	North American Technician Excellence (NATE)
Gas Metal Arc Welding (GMAW) Examination	American Welding Society (AWS)
Gas Tungsten Arc Welding (GTAW) Examination	American Welding Society (AWS)
General Communications Technician–Level 1 (GCT1) Examination	Electronics Technicians Association (ETA) International

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Graphic Production Technology Assessment	National Occupational Competency Testing Institute (NOCTI)
HBI Pre-Apprenticeship Certificate Training (PACT) Assessments (Pass any one)	Home Builders Institute (HBI) (administered by NOCTI)
HBI/NAHB Residential Construction Academy (RCA) Series Student Certification Assessments (Pass any one exam)	Home Builders Institute (HBI) (administered by NOCTI)
Heat Pump Employment Ready Examination	HVAC Excellence
* Heat Pump Service Examination	North American Technician Excellence (NATE)
Heating, Electrical, Air Conditioning Technology (HEAT) Examination	HVAC Excellence
Heating, Ventilation, Air Conditioning & Refrigeration (HVAC/R) Assessment	NOCTI
Heating, Ventilation, Air Conditioning (HVAC) Assessment	NOCTI
Heavy Equipment Operator Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
* HVAC Excellence Specialty Examinations (pass any one exam)	HVAC Excellence
HVAC Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
ICC Certificates of Completion Examinations (pass any one exam)	International Code Council (ICC)
Industrial Electricity Assessment	NOCTI
Industrial Electronics Assessment	NOCTI
Industrial Maintenance Mechanics Assessment	NOCTI
Industrial Technology Maintenance–Level 1 Examinations (pass any one exam)	National Institute for Metalworking Skills (NIMS)
Installer (or Service) Core (HVAC/R) Examination	North American Technician Excellence Inc. (NATE)
International Code Council Residential Building Inspector (BI) Examination	International Code Council (ICC)

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
International Code Council Residential Electrical Inspector (E1) Examination	International Code Council (ICC)
International Code Council Residential Mechanical (HVAC) Inspector (M1) Examination	International Code Council (ICC)
International Code Council Residential Plumbing Inspector (P1) Examination	International Code Council (ICC)
IT Fundamentals+ (ITF+) Certification Examination	CompTIA
Legal Services Assessment	NOCTI
Light Commercial Refrigeration Employment Ready Examination	HVAC Excellence
Machining-Level 1 Examinations (pass any one exam with performance component)	National Institute for Metalworking Skills (NIMS)
Maintenance Operations Assessment	NOCTI
Marine Service Technician (Inland and Coastal-Core) Assessment	The American Boat & Yacht Council (ABYC) (administered by NOCTI)
Masonry Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
Mechanical Apprentice Drafter Examination (also listed in Technology Education)	American Design Drafting Association (ADDA)
Mechanical Certified Drafter Examination (also listed in Technology Education)	American Design Drafting Association (ADDA)
Mechatronics Systems Certification Examinations (pass any one exam)	Siemens AG
Mechatronics Level 1 Assessment	NOCTI
Mobile Communications and Electronics Installer (MCEI) Examination	Electronics Technicians Association (ETA) International
Natural Gas Combustion Employment Ready Examination	HVAC Excellence
Network Cabling Specialist Certification Examinations	C-Tech Associates Inc.
Non-Structural Technician-ProLevel 1 Certification Test	ICAR

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
* Non-Structural Technician-ProLevel 2 Certification Test	ICAR
Official Motor Vehicle Inspector Examination	Virginia State Police
Performing Arts Assessment (also listed in Technology Education)	NOCTI
Photovoltaic Installer-Level 1 (PVII) Examination	Electronics Technicians Association (ETA) International
Plumbing Assessment	NOCTI
Plumbing-Heating-Cooling Contractors Educational Foundation Examinations (pass any one exam)	Plumbing-Heating-Cooling Contractors (PHCC) Educational Foundation (administered by NOCTI)
Plumbing Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)
Precision Machining Assessment	NOCTI
Principles of Small Engine Technology Certification Examination	Equipment & Engine Training Council (EETC)
Print[ED] Certification Examinations (pass any one exam)	Graphic Arts Education and Research Foundation (administered by SkillsUSA)
Protective Services Assessment	NOCTI
Refinish Technician-ProLevel 1 Certification Test	ICAR
* Refinish Technician-ProLevel 2 Certification Test	ICAR
Residential & Light Commercial Hydronic Heat Employment Ready Examination	HVAC Excellence
Security and Protective Services Assessment	NOCTI
SENSE Training Program Certification Examination (Level 1, Entry-Level Welder)	American Welding Society (AWS)
Shielded Metal Arc Welding (SMAW) Examination	American Welding Society (AWS)
Small Unmanned Aircraft System (UAS) Safety Certification Examination	Unmanned Safety Institute

TRADE AND INDUSTRIAL EDUCATION NAME OF CREDENTIAL	ISSUING ORGANIZATION
Smart Automation Associate Certifications (pass any one)	Smart Automation Certification Alliance (SACA)
Student Electronics Technician (SET) Examination	Electronics Technicians Association (ETA) International
Technical Drafting Assessment	NOCTI
Technical Theater Assessment	NOCTI
Telecommunications Electronics Technician (TCM) Examination	Electronics Technicians Association (ETA) International
Television Production Assessment	NOCTI
Visual Arts Assessment	NOCTI
Visual Communications and Interactive Media Design Assessment	NOCTI
Welding Assessment	NOCTI
Welding Level One Entry-Level Assessment	National Center for Construction Education & Research (NCCER)

PROFESSIONAL LICENSES NAME OF CREDENTIAL	ISSUING ORGANIZATION
Barbers Examination	Board of Barbers and Cosmetology (Virginia Department of Professional and Occupational Regulation)
Certified Commercial Pesticide Applicator Examination	Virginia Department of Agriculture and Consumer Services
Certified Nurse Aide Examination	Virginia Board of Nursing
Certified Private Applicator Examination	Virginia Department of Agriculture and Consumer Services
Certified Registered Technician Pesticide Applicator Examination	Virginia Department of Agriculture and Consumer Services

PROFESSIONAL LICENSES	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Emergency Medical Responder Examination	Department of Health, Office of Emergency Medical Services
Emergency Medical Technician Examination	Department of Health, Office of Emergency Medical Services
FAA Private Pilot Written Test	Federal Aviation Administration
General Radiotelephone Operator (GRO) Examination	Federal Communications Commission (FCC)
Licensed Practical Nurse Examination	Virginia Board of Nursing
Nail Technician Examination	Board of Barbers and Cosmetology (Virginia Department of Professional and Occupational Regulation)
Real Estate Salesperson Examination	Virginia Real Estate Board (Virginia Department of Professional and Occupational Regulation)
Virginia Cosmetology Examination	Board of Barbers and Cosmetology (Virginia Department of Professional and Occupational Regulation)

EXAMINATIONS	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Advanced Placement (AP) Computer Science A Examination	The College Board
Advanced Placement (AP) Computer Science Principles Examination	The College Board
College Level Examination Program (CLEP): Financial Accounting Examination	The College Board
College Level Examination Program (CLEP): Information Systems and Computer Applications	The College Board

EXAMINATIONS	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
<u>College Level Examination Program (CLEP): Introductory Business Law</u>	The College Board
<u>College Level Examination Program (CLEP): Principles of Management</u>	The College Board
<u>College Level Examination Program (CLEP): Principles of Marketing</u>	The College Board
<u>International Baccalaureate Computer Science (Higher Level) Examination</u>	The International Baccalaureate Organization
<u>International Baccalaureate Computer Science (Standard Level) Examination</u>	The International Baccalaureate Organization
<u>International Baccalaureate Design Technology (Higher Level) Examination</u>	The International Baccalaureate Organization
<u>International Baccalaureate Design Technology (Standard Level) Examination</u>	The International Baccalaureate Organization
<u>International Baccalaureate for Business and Management (Standard Level) Examination</u>	The International Baccalaureate Organization
<u>International Baccalaureate Information Technology in a Global Society (Standard Level) Examination</u>	The International Baccalaureate Organization

DELETIONS—AGRICULTURAL EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Power Equipment Technology Examination	SkillsUSA

DELETIONS—BUSINESS AND INFORMATION TECHNOLOGY	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
App Development with Swift Level I Examination	Apple
Certified Internet Web (CIW) E-Commerce Services Specialist Examination	Certification Partners, LLC
Microsoft Technology Associates (MTA) Examinations	Microsoft

DELETIONS—FAMILY AND CONSUMER SCIENCES	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Commercial Baking Examination	SkillsUSA
Culinary Arts Examination	SkillsUSA

DELETIONS—HEALTH AND MEDICAL SCIENCES	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Nurse Assisting Examination	SkillsUSA

DELETIONS—TECHNOLOGY EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
3D Visualization & Animation Examination	SkillsUSA
Additive Manufacturing Fundamentals Examination	ToolingU-SME
ArcGIS Desktop Entry Certification Examination	Environmental Systems Research Institute (ESRI)

DELETIONS—TECHNOLOGY EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Architectural Drafting Examination	SkillsUSA
Automated Manufacturing Technology Examination	SkillsUSA
Electronics Application/Electronics Technology Examination	SkillsUSA
Engineering Technology Examination	SkillsUSA
Logistics Technology/Distribution Center Services	NOCTI
Robotics and Automation Examination	SkillsUSA
Technical Drafting Examination	SkillsUSA

DELETIONS—TRADE AND INDUSTRIAL EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Audio-Radio Production Examination	SkillsUSA
Cabinetmaking Examination	SkillsUSA
Carpentry Examination	SkillsUSA
Cisco Certified Networking Professional (CCNP) Automation for Cisco Enterprise Solutions Examination	Cisco Systems Inc.
Cisco Certified Networking Professional (CCNP) Cisco SD-WAN Solutions Examination	Cisco Systems Inc.
Cisco Certified Networking Professional (CCNP) Designing Cisco Enterprise Networks Examination	Cisco Systems Inc.
Cisco Certified Networking Professional (CCNP) Designing Enterprise Wireless Networks Examination	Cisco Systems Inc.
Cisco Certified Networking Professional (CCNP) Implementing Cisco Enterprise Advanced Routing & Services Examination	Cisco Systems Inc.

DELETIONS—TRADE AND INDUSTRIAL EDUCATION	
NAME OF CREDENTIAL	ISSUING ORGANIZATION
Cisco Certified Networking Professional (CCNP) Implementing and Operating Enterprise Network Core Technologies Examination	Cisco Systems Inc.
Cisco Certified Networking Professional (CCNP) Implementing Enterprise Wireless Networks Examination	Cisco Systems Inc.
CNC Milling and Turning Examination	SkillsUSA
Computer Maintenance Technology Examination	SkillsUSA
Cosmetology Examination	SkillsUSA
Criminal Justice and CSI Examination	SkillsUSA
Electrical Construction Wiring (Residential Wiring) Examination	SkillsUSA
Internetworking Examination	SkillsUSA
Marine Service Technology Examination	SkillsUSA
Masonry Examination	SkillsUSA
Motorcycle Service Technology Examination	SkillsUSA
Nail Care Examination	SkillsUSA
Photography Examination	SkillsUSA
Plumbing Examination	SkillsUSA
Television Video Production Examination	SkillsUSA
Welding Examination	SkillsUSA