











DOE Code	Certification/Credential Title	Issuing Organization/Provider	Type (CAPE Industry Certification, CAPE Acceleration Industry Certification, CAPE Digital Tool Certificate)	Certification/Credential Description	Written Exam Requirements	Other Requirements (Age, program completion, etc.)	Work Experience	Additional Information	Agency Website
FLFBR010	Natural Resources Specialist Certification	Agricultural Education Services and Technology Inc.	CAPE Industry Certification	The Natural Resources Specialist certification measures knowledge and skill set applicable to the environmental and wildlife resources sector of the agriculture industry including concepts surrounding renewable and nonrenewable resources; ecosystems; soil science including physical properties, analysis, classification and erosion; water management including irrigation knowledge and conservation issues; pollution of our resources; plant nutritional needs; best management practices for soil and water usage; wildlife management; environmental and resource sustainability; and identification of common weeds, insects, plant diseases and wildlife species.	1 exam required; 100 multiple choice questions; minimum score of 65%	None	None	None	<a href="http://certify.ag/certifications/natural-resources/">http://certify.ag/certifications/natural-resources/</a>
FLSFM005	Fire Fighter I	Florida Department of Financial Services, State Fire Marshal, Bureau of Fire Standards & Training	CAPE Industry Certification	The Fire Fighter I certification demonstrates knowledge and skills to function in a firefighting team in a hazardous environment under direct supervision.	1 exam required	An individual must meet minimum qualifications for certification as a career firefighter: 1) be at least 18yrs of age; 2) have a high school diploma or GED; 3) be of good moral character; 4) be in excellent physical condition; 5) have a Associate of Arts, Baccalaureate or graduate-level degree or stipulated test scores on SAT, ACT, CPT, MAPS, or TABE; and 6) complete the Minimum Standards Training Course and the State Certification Examination.	None	None	<a href="http://www.myfloridacfo.com/division/sfm/bfst/">www.myfloridacfo.com/division/sfm/bfst/</a>
FLVMA002	Certified Veterinary Assistant (CVA)	Florida Veterinary Medical Association	CAPE Industry Certification	The Certified Veterinary Assistant (CVA) certification measures knowledge and skills to familiarize new assistants and other hospital staff with the procedures performed daily in an animal hospital.	2 exams required (Level One and Level Two); the CVA student must demonstrate numerous hands-on skills for their supervisor; and a CVA Final Exam.	Online Curriculum - 10 units comprised of approximately 100 veterinary videos and Power Point presentations	A 90-day (500 hours) working apprenticeship in the veterinary hospital of the candidate's choice. Once the applicant has successfully achieved Level One certification, they must Complete six months (180 day work experience/ 1000 hours) at Level One before they are eligible to sit for the Level Two exam.	None	<a href="http://fvma.org/certification/certified-vet-assistant/">fvma.org/certification/certified-vet-assistant/</a>
FNGLA001	Certified Horticulture Professional	Florida Nursery Growers and Landscape Association	CAPE Industry Certification	The Florida Nursery, Growers & Landscape Association (FNGLA) Certified Horticulture Professional (FCHP) certification measures knowledge and skills in horticulture in areas such as plant and pest identification and landscape management.	1 exam required, 4-parts; 3 hours	Must be employed in Florida horticulture for 90 days prior to application; Be a student in a horticulture program (or graduated within the preceding 18 months); Be an instructor of horticulture; or Be a member of the Florida Nursery, Growers & Landscape Association (FNGLA). Eight week online short courses to prepare for the exam.	None	None	<a href="http://www.fn gla.org">www.fn gla.org</a>
FNGLA003	Certified Landscape Maintenance Technician	Florida Nursery Growers and Landscape Association	CAPE Industry Certification	The Certified Landscape Maintenance Technician (FCLMT) program is designed to measure the skills of practicing landscape maintenance technicians. This certification relies heavily on Green Industries Best Management Practices, and tests competencies in the following: Plant Identification, Pest Management, Fertilization, Truck & Trailer, Irrigation, Pruning, Site Evaluation, and Turf Management.	One day-long exam with 9 sections: 1 written section and 8 field exam sections. Each field exam section must be passed with a minimum 70%.	None	One year of prior industry work experience is required.	None	<a href="https://www.fn gla.org/professional-development/certifications/fn gla-certified-landscape-technician">https://www.fn gla.org/professional-development/certifications/fn gla-certified-landscape-technician</a>
FNGLA004	Certified Landscape Technician	Florida Nursery Growers and Landscape Association	CAPE Industry Certification	The Certified Landscape Technician (FCLT) program is a hands-on certification designed to measure the skills of practicing landscape installation technicians. The certification tests competencies in Plant ID, Plan Layout, Tree Installation, Pruning, Palm Banding & Propping, Grading & Drainage, Irrigation, Equipment Operation, Job Evaluation	One day long exam. Each of the following FCLT field exam sections must be passed with a minimum 70%: Plant ID, Plan Layout, Tree Installation, Pruning, Palm Banding & Propping, Grading & Drainage, Irrigation, Equipment Operation, Job Evaluation	None	One year of prior industry work experience is required.	None	<a href="https://www.fn gla.org/professional-development/certifications/fn gla-certified-landscape-technician">https://www.fn gla.org/professional-development/certifications/fn gla-certified-landscape-technician</a>
GRBCI002	LEED Green Associate	Green Building Certification Institute	CAPE Industry Certification	The LEED, or Leadership in Energy & Environmental Design, certification is a green building certification that recognizes building strategies and practices. To receive LEED certification, building projects satisfy prerequisites and earn points to achieve different levels of certification: Certified, Silver, Gold and Platinum.	1 exam required	None	None	None	<a href="http://www.gbci.org">www.gbci.org</a>
HBINS002	Pre-Apprenticeship Certificate Training (PACT), Building Construction Technology	Home Builders Institute	CAPE Industry Certification	The Pre-Apprenticeship Certificate Training (PACT), Building Construction Technology certification measures knowledge and skills in carpentry, electrical, plumbing, brick masonry, landscaping, facilities maintenance, painting and weatherization.	1 exam required; 60 questions; 50 minutes	None	None	None	<a href="http://www.hbi.org">www.hbi.org</a>
HBINS003	HBI Pre-Apprenticeship Certificate Training (PACT), Carpentry	Home Builders Institute	CAPE Industry Certification	The Carpentry certification exam tests competencies in safety; measurement; tools and equipment; products and materials; rough carpentry and framing; and interior and exterior finishing.	1 exam required; 50 questions; 50 minutes	None	None	None	<a href="http://www.hbi.org">www.hbi.org</a>
HBINS004	HBI Pre-Apprenticeship Certificate Training (PACT), Core	Home Builders Institute	CAPE Industry Certification	The Core certification exam tests competencies in building trades safety; construction math; tools and construction materials; and employability.	1 exam required; 30 questions; 50 minutes	None	None	None	<a href="http://www.hbi.org">www.hbi.org</a>
HBINS005	HBI Pre-Apprenticeship Certificate Training (PACT), Core Green	Home Builders Institute	CAPE Industry Certification	The Core Green certification exam tests competencies in building trades safety and first aid; construction math; tools and construction materials; employability; and green building.	1 exam required; 40 questions; 50 minutes	None	None	None	<a href="http://www.hbi.org">www.hbi.org</a>
HBINS006	HBI Pre-Apprenticeship Certificate Training (PACT), Electrical	Home Builders Institute	CAPE Industry Certification	The Electrical certification exam tests competencies in safety, tools and equipment; codes and blueprints; basic electrical concepts; service entrances; electrical rough-in; and electrical trim-out and troubleshooting.	1 exam required; 50 questions; 50 minutes	None	None	None	<a href="http://www.hbi.org">www.hbi.org</a>
HVACE001	HVAC Excellence Employment Ready - Heat Pump	HVAC Excellence	CAPE Industry Certification	HVAC Excellence Employment Ready Heat Pump certification measures knowledge and skills in components, controls, heat pump cycle, service, theory, troubleshooting, interpreting heat pump schematics.	1 exam required; 100 questions	None	None	None	<a href="http://www.hvacexcellence.org">www.hvacexcellence.org</a>
HVACE002	HVAC Excellence Employment Ready - Air Conditioning	HVAC Excellence	CAPE Industry Certification	HVAC Excellence Employment Ready Air Conditioning certification measures knowledge and skills in air conditioning and refrigeration theory, equipment service, systems and components, troubleshooting, refrigerant flow control theory and application.	1 exam required; 100 questions	None	None	None	<a href="http://www.hvacexcellence.org">www.hvacexcellence.org</a>
HVACE011	HVAC Excellence Employment Ready - Electrical	HVAC Excellence	CAPE Industry Certification	HVAC Excellence Employment Ready Electrical certification measures knowledge and skills in components, meter usage, safety, theory, troubleshooting, fundamentals of motors and capacitors, interpreting electrical diagrams.	1 exam required; 100 questions	None	None	None	<a href="http://www.hvacexcellence.org">www.hvacexcellence.org</a>
ICOEC005	EC-Council Cyber Forensics Associate	EC-Council	CAPE Industry Certification	The Cyber Forensics Associate (CJFA) certification demonstrates an individual's knowledge of how to detect hacking attacks and properly extract evidences to report the crime and conduct audits to prevent future attacks.	1 exam required; 40 questions; 50 minutes	None	None	None	<a href="https://www.eccouncil.org/eccouncil-associate-programs-eha-cfa/">https://www.eccouncil.org/eccouncil-associate-programs-eha-cfa/</a>
ICOEC006	EC-Council Ethical Hacker Associate	EC-Council	CAPE Industry Certification	The Ethical Hacking Associate (EJHA) certification demonstrates an individual's knowledge in information security and network security, including the tools and methodologies of a malicious hacker, but in a lawful and legitimate manner. This credential certifies individuals at an entry-level of network security discipline of ethical hacking from a vendor-neutral perspective.	1 exam required; 40 questions; 50 minutes	None	None	None	<a href="https://www.eccouncil.org/eccouncil-associate-programs-eha-cfa/">https://www.eccouncil.org/eccouncil-associate-programs-eha-cfa/</a>
INTUT001	QuickBooks Certified User	Intuit	CAPE Industry Certification	The QuickBooks Certified User certification documents proficiency of accounting professions with the QuickBooks Financial Software (Pro, Premier, and Enterprise editions).	1 exam required; 50 multiple choice questions; computer based; passing score of 80% or greater required.	None	None	None	<a href="http://quickbookstraining.com/QuickBooks-certification/">quickbookstraining.com/QuickBooks-certification/</a>
INTUT002	Entrepreneurship & Small Business	Intuit	CAPE Industry Certification	The Entrepreneurship & Small Business certification validates understanding of core business principles, including the essentials of launching and maintaining a successful company. Competencies tested include entrepreneurship; recognizing and evaluating opportunities; planning for, starting, and operating a business; marketing and sales; and business financials and funding.	1 exam required (ESB V.2)	None	None	None	<a href="https://certiport.com/esh">https://certiport.com/esh</a>

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INTUT003	Master Entrepreneurship Certification	Intuit	CAPE Industry Certification	The Master Entrepreneurship certification tests concepts related to entrepreneurship and small business concepts and principles, as well as design thinking. This certification requires two exams: Entrepreneurship & Small Business (ESB V.2) and Design for Delight. The Entrepreneurship & Small Business certification validates understanding of core business principles, including the essentials of launching and maintaining a successful company. Competencies tested include entrepreneurship; recognizing and evaluating opportunities; planning for, starting, and operating a business; marketing and sales; and business financials and funding. Design for Delight is a set of principles that give students hands-on experience in creative problem-solving and innovation. Design for Delight tests competencies in the following principles: deep customer empathy, go broad to go narrow, and rapid experiments with customers.	2 exams required: Entrepreneurship & Small Business (ESB V.2) and Design for Delight	None	None	None	<a href="https://certipoint.com/esb">https://certipoint.com/esb</a>
ISOGR801	TOSA@DigComp	Isograd Inc.	CAPE Digital Tool Certificate	The TOSA@ DigComp test measures competencies in information and data literacy, communication and collaboration; digital content creation; safety; and problem solving.	3 exams required: TOSA@DigComp Assessment x2 (pre- and post-assessment or practice test) TOSA@DigComp Certification exam	None	None	None	<a href="https://www.isograd.com/EN/tosadigital.php">https://www.isograd.com/EN/tosadigital.php</a>
ISOGR802	TOSA@ CyberCitizen	Isograd Inc.	CAPE Digital Tool Certificate	The TOSA@ CyberCitizen test assesses the candidate's abilities to protect devices and digital content and understand the risks and security measures in the protection of personal data in different contexts (social networks, email, software install, etc.), in a professional environment, at home or on the move.	3 exams required: TOSA@ CyberCitizen Assessment x2 (pre- and post assessment or practice test) TOSA@ CyberCitizen Certification exam 35 questions; 60 minutes; minimum score of 351	None	None	None	<a href="https://www.tosa.org/EN/Certification?brand=digital">https://www.tosa.org/EN/Certification?brand=digital</a>
ISOGR803	TOSA@ Google Docs	Isograd Inc.	CAPE Digital Tool Certificate	TOSA@ Google Docs validates the candidate's proficiency and skill level in the Google Docs software application. It assesses the candidate's level on four skill domains: methods and software environment, page layout and formatting, editing tools, and graphic objects and tables.	3 exams required: TOSA@ Google Docs Assessment x2 (pre- and post assessment or practice test) TOSA@ Google Docs Certification exam 35 questions; 60 minutes; minimum score of 351	None	None	None	<a href="https://www.tosa.org/EN/Certification?brand=desktop">https://www.tosa.org/EN/Certification?brand=desktop</a>
ISOGR804	TOSA@ Google Sheets	Isograd Inc.	CAPE Digital Tool Certificate	TOSA@ Google Sheets validates the candidate's proficiency and skill level in the Google Sheets software application. It assesses the candidate's level on four skill domains: methods and software environment, data manipulation, functions and formulas, and formatting.	3 exams required: TOSA@ Google Sheets Assessment x2 (pre- and post assessment or practice test) TOSA@ Google Sheets Certification exam 35 questions; 60 minutes; minimum score of 351	None	None	None	<a href="https://www.tosa.org/EN/Certification?brand=desktop">https://www.tosa.org/EN/Certification?brand=desktop</a>
ISOGR805	TOSA@ Google Slides	Isograd Inc.	CAPE Digital Tool Certificate	TOSA@ Google Slides validates the candidate's proficiency and skill level in the Google Slides software application. It assesses the candidate's level on four skill domains: methods and software environment, text formatting, object manipulation, and themes and templates.	3 exams required: TOSA@ Google Slides Assessment x2 (pre- and post assessment or practice test) TOSA@ Google Slides Certification exam 35 questions; 60 minutes; minimum score of 351	None	None	None	<a href="https://www.tosa.org/EN/Certification?brand=desktop">https://www.tosa.org/EN/Certification?brand=desktop</a>
KNOWL001	Python Coding Specialist	Knowledge Pillars LLC	CAPE Industry Certification	The Python Coding Specialist certification allows coding specialists, software developers, and IT professionals the ability to assess their knowledge and get credentials for their programming skills. Competencies tested include Python fundamental concepts; variables and operators; using conditional statements; using loops; creating and using functions and generators; Python data structures; using modules and packages; classes, objects and object-oriented programming; responding to events and exceptions; and input-output operations using Python.	1 exam required; 35 questions; 45 minutes; minimum passing score of 75%.	None	None	None	<a href="https://knowledge-pillars.com/python-coding-specialist/">https://knowledge-pillars.com/python-coding-specialist/</a>
KNOWL002	WordPress Certified Editor	Knowledge Pillars LLC	CAPE Industry Certification	The WordPress Certified Editor certification exam tests competencies in the correct application of principle features of WordPress by creating and editing posts and pages in real WordPress websites. Candidates are expected to have a firm background related to managing posts, pages, comments and the media library, as well as using the post and page builder and editing the HTML code of posts or pages.	1 exam required; 35 questions; 45 minutes; minimum passing score of 75%.	None	None	None	<a href="https://knowledge-pillars.com/wordpress-editor-certification/">https://knowledge-pillars.com/wordpress-editor-certification/</a>
KNOWL801	Python Coding Apprentice (PCA)	Knowledge Pillars LLC	CAPE Digital Tool Certificate	Python Coding Apprentice (PCA) candidates are expected to demonstrate a general background in coding with Python. Prior to taking the exam, a candidate is expected to have approximately 100 hours of hands-on experience or lectures on developing using Python. Skills measured include data types & operations, variables, input and output, conditionals, loops, lists, and function.	1 exam required; 25 questions; 25 minutes; minimum score of 75%.	None	None	None	<a href="https://knowledge-pillars.com/python-coding-apprentice-certification/">https://knowledge-pillars.com/python-coding-apprentice-certification/</a>
LINPI001	Linux Essentials 010	Linux Professional Institute	CAPE Industry Certification	The Linux Essentials 010 exam tests competencies in the following topics: understanding of the Linux community career options in open source, navigating a Linux system, using the command line, the Linux operating system, and security and file permissions.	1 exam required (Exam code 010-160); 40 questions; 60 minutes	None	None	None	<a href="https://www.lpi.org/our-certifications/linux-essentials-overview">https://www.lpi.org/our-certifications/linux-essentials-overview</a>
MICRO017	Microsoft Office Specialist: Microsoft Office 2016 Master Specialist (Requires Word Expert, Excel Expert, PowerPoint, and Access or Outlook)	Microsoft Corporation	CAPE Industry Certification	The Microsoft Office Specialist: Microsoft Office 2016 Master Specialist certification measures technical proficiency and expertise of an individual with the Microsoft Office programs including the ability to use advanced features and ability to integrate the Office programs with other software programs.	4 exams required: Word 2016 Expert (77-726); Excel 2016 Expert (77-728); and, PowerPoint 2016 (77-729); AND one elective exam: Access 2016 (77-730); OR Outlook 2016 (77-731)	None	None	None	<a href="https://www.microsoft.com/en-us/learning/microsoft-office-specialist-master-certification-2016.aspx#cp-section3-head">https://www.microsoft.com/en-us/learning/microsoft-office-specialist-master-certification-2016.aspx#cp-section3-head</a>
MICRO070	Microsoft Technology Associate (MTA) - Database Administration Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Database Administration Fundamentals certification demonstrates an individual's understanding of core database concepts (DML, DDL, and RDBMS), how to create database objects (TSQL, data types, tables, and views), how to manipulate data (SELECT queries, update and delete data), data storage requirements, and how to administer a database (security, backup, and restore).	1 exam required (Exam 98-364 - MTA-Database Administration Fundamentals)	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>
MICRO074	Microsoft Technology Associate (MTA) - Software Development Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Software Development Fundamentals certification demonstrates an individual's understanding of core programming concepts, such as computer storage and data types, decision structures, and error handling; object oriented programming, including classes, inheritance, polymorphism, and encapsulation; application life cycle management, application specifications, algorithms and data structures; Web page development (HTML, JavaScript, and CSS), Microsoft ASP.NET Web application development, Web hosting, and Web services; desktop applications, including Windows® Forms applications, console-based applications, and Windows Services; and databases, including RDMS, query methods, and database connection methods.	1 exam required (Exam 98-361 - MTA Software Development Fundamentals)	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>
MICRO076	Microsoft Technology Associate (MTA) - Windows OS Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Windows OS Fundamentals certification demonstrates an individual's understanding of Windows operating system configuration, installing/upgrading and maintaining client systems, and managing applications, files and folders, and devices.	1 exam required (Exam 98-349 - MTA Windows OS Fundamentals)	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>

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MICRO077	Microsoft Technology Associate (MTA) - Security Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Security Fundamentals certification demonstrates an individual's understanding of security concepts in a Windows Server 2008 environment such as security layers, operating system security, network security, and security software.	1 exam required (Exam 98-367 - MTA Security Fundamentals)	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>
MICRO078	Microsoft Technology Associate (MTA) - Networking Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Networking Fundamentals certification demonstrates an individual's understanding of networking concepts in a Windows Server 2008 environment such as network infrastructures, network hardware, and protocols and services.	1 exam required (Exam 98-366 - MTA Networking Fundamentals)	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>
MICRO080	Microsoft Technology Associate (MTA) - HTML5 Application Developer Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - HTML5 Application Development Fundamentals certification demonstrates an individual's understanding of core HTML5 client application development skills that runs on today's touch-enabled devices (PCs, tablets, and phones).	1 exam required (Exam 98-375 - MTA HTML5 Application Development Fundamentals)	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>
MICRO102	Microsoft Technology Associate (MTA) - Mobility and Devices Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Mobility and Device Fundamentals certification demonstrates an individual's understanding of device configurations, data access and management, device security, cloud services, and enterprise mobility.	1 exam required (Exam 98-368), 40-60 questions with a 45 minute limit	None	None	None	<a href="http://www.microsoft.com/learning">www.microsoft.com/learning</a>
MICRO104	Microsoft Technology Associate (MTA) - Introduction to Programming Using JavaScript	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Introduction to Programming Using JavaScript certification measures skill in the following competencies: programming with JavaScript operators, methods and keywords; programming with variables, data types and functions; implementing and analyzing decisions and loops; interacting with the document object model; and interacting with HTML forms.	1 exam required (98-382); 39 questions; 45 minutes	None	None	None	<a href="https://www.microsoft.com/en-us/learning/exam-98-382.aspx">https://www.microsoft.com/en-us/learning/exam-98-382.aspx</a>
MICRO105	Microsoft Technology Associate (MTA) - Introduction to Programming Using HTML and CSS	Microsoft Corporation	CAPE Industry Certification	The Microsoft Technology Associate (MTA) - Introduction to Programming Using HTML and CSS measures competencies in the understanding of HTML and CSS fundamentals, structuring documents using HTML, presenting multimedia using HTML and styling web pages using CSS.	1 exam required (98-383); 41 questions; 45 minutes	None	None	None	<a href="https://www.microsoft.com/en-us/learning/exam-98-383.aspx">https://www.microsoft.com/en-us/learning/exam-98-383.aspx</a>
MICRO112	Microsoft Technology Associate (MTA) - Introduction to Programming Using Python	Microsoft Corporation	CAPE Industry Certification	Candidates for this exam should be able to recognize and write syntactically correct Python code, recognize data types supported by Python, and be able to recognize and write Python code that will logically solve a given problem. Candidates are expected to have had, at a minimum, instruction and/or hands-on experience of approximately 100 hours with the Python programming language, be familiar with its features and capabilities, and understand how to write, debug, and maintain well-formed, well documented Python code.	1 exam required; 40 Questions; 45 minutes	None	None	None	<a href="https://www.microsoft.com/en-us/learning/mta-summary-certification.aspx">https://www.microsoft.com/en-us/learning/mta-summary-certification.aspx</a>
MICRO114	Microsoft Technology Associate (MTA) - Introduction to Programming Using Java	Microsoft Corporation	CAPE Industry Certification	Candidates for this exam are application developers working with Java 6 SE or later, secondary and immediate post-secondary level students of software development, or entry-level software developers. Candidates should have at least 150 hours or instruction or hands-on experience with Java, are familiar with its features and capabilities, and understand how to write, debug and maintain well-formed, well documented Java code.	1 exam required; 44 Questions; 45 minutes	None	None	None	<a href="https://www.microsoft.com/en-us/learning/mta-summary-certification.aspx">https://www.microsoft.com/en-us/learning/mta-summary-certification.aspx</a>
MICRO115	Microsoft Technology Associate (MTA) - Windows Server Administration Fundamentals	Microsoft Corporation	CAPE Industry Certification	Candidates for this exam are seeking to prove Windows Server administration knowledge and skills. Candidates are expected to have some hands-on experience with Windows Server, Windows-based networking, Active Directory, account management, and system recovery tools and concepts.	1 exam required; 57 Questions; 50 minutes	None	None	None	<a href="https://www.microsoft.com/en-us/learning/mta-summary-certification.aspx">https://www.microsoft.com/en-us/learning/mta-summary-certification.aspx</a>
MICRO123	Microsoft 365 Certified: Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft 365 Certified: Fundamentals certification is designed for candidates looking to demonstrate foundational knowledge in the considerations and benefits of adopting cloud services in general and the Software as a Service (SaaS) cloud model. This exam will also cover knowledge of available options and benefits gained by implementing Microsoft 365 cloud service offerings. Competencies tested include cloud concepts; core Microsoft 365 services and concepts; security, compliance, privacy and trust in Microsoft 365; and Microsoft 365 pricing and support.	One exam required (MS-900); 32-43 questions; 60 minutes	None	None	None	<a href="https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview">https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview</a>
MICRO124	Microsoft Certified: Azure AI Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Certified: Azure AI Fundamentals certification is designed for candidates who have foundational knowledge of machine learning (ML) and artificial intelligence (AI) concepts and related Microsoft Azure services. This exam is intended for candidates with both technical and non-technical backgrounds. Data science and software engineering experience are not required; however, some general programming knowledge or experience would be beneficial. Competencies tested include AI workloads and considerations; principles of machine learning on Azure; features of computer vision workloads on Azure; features of Natural Language Processing (NLP) workloads on Azure; and features of conversational AI workloads on Azure.	1 exam required (AI-900); 52 questions; 60 minutes	None	None	None	<a href="https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview">https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview</a>
MICRO125	Microsoft Certified: Azure Data Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Certified: Azure Data Fundamentals certification is designed for candidates who have foundational knowledge of core data concepts and how they are implemented using Microsoft Azure data services. This certification is intended for candidates beginning to work with data in the cloud. Candidates should be familiar with the concepts of relational and non-relational data, and different types of data workloads such as transactional or analytical. Competencies tested include core data concepts; working with relational and non-relational data on Azure; and analytics workload on Azure.	1 exam required (DP-900); 50 questions; 60 minutes	None	None	None	<a href="https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview">https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview</a>
MICRO126	Microsoft Certified: Azure Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Certified: Azure Fundamentals is designed to prove knowledge of cloud concepts, Azure services, Azure workloads, security and privacy in Azure, as well as Azure pricing and support. Candidates should be familiar with the general technology concepts, including concepts of networking, storage, compute, application support and application development. Competencies tested include cloud concepts; core Azure services; core solutions and management tools on Azure; general security and network security features; identity, governance, privacy and compliance features; and Azure cost management and service level agreements.	1 exam required (AZ-900); 32-43 questions; 60 minutes	None	None	None	<a href="https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview">https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview</a>
MICRO128	Microsoft Certified: Power Platform Fundamentals	Microsoft Corporation	CAPE Industry Certification	The Microsoft Certified: Power Platform Fundamentals certification is designed to prove understanding of the core capabilities of the Power Platform—from business value and core product capabilities to building a simple Power Apps canvas app, connecting data sources, automating basic business processes with Power Automate, creating a Power BI dashboard and creating chatbots with Power Virtual Agents. Competencies tested include the business value of Power Platform; core components of Power Platform; capabilities of Power BI, Power Apps and Power Automate; and the business value of Power Virtual Agents.	1 exam required (PL-900); 37 questions; 60 minutes	None	None	None	<a href="https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview">https://certiport.pearsonvue.com/Certifications/Microsoft/MTC/Overview</a>
MICRO801	Microsoft Office Specialist: Microsoft Office Excel	Microsoft Corporation	CAPE Digital Tool Certificate	The Microsoft Office Excel exam tests competencies in fundamentals of creating and managing worksheets and workbooks, creating cells and ranges, creating tables, applying formulas and functions, and creating charts and objects. The exam covers the ability to create and edit a workbook with multiple sheets and use a graphic element to represent data visually.	1 exam required (MO-200 or 77-727)	None	None	None	<a href="https://docs.microsoft.com/en-us/learn/certifications/mos-excel-2019">https://docs.microsoft.com/en-us/learn/certifications/mos-excel-2019</a>
MICRO802	Microsoft Office Specialist: Microsoft Office Word	Microsoft Corporation	CAPE Digital Tool Certificate	The Microsoft Office Word Exam tests competencies in the correct application of the principal features of Word by creating and editing documents for a variety of purposes and situations.	1 exam required (MO-100 or 77-725)	None	None	None	<a href="https://docs.microsoft.com/en-us/learn/certifications/mos-word-2019">https://docs.microsoft.com/en-us/learn/certifications/mos-word-2019</a>
MICRO803	Microsoft Office Specialist: Microsoft Office PowerPoint	Microsoft Corporation	CAPE Digital Tool Certificate	The Microsoft Office PowerPoint exam measures competency to create, edit, and enhance presentations and slideshows, including the ability to create and manage presentations, insert and format shapes and slides, create slide content, apply transitions and animations, and manage multiple presentations.	1 exam required (MO-300 or 77-729)	None	None	None	<a href="https://docs.microsoft.com/en-us/learn/certifications/mos-powerpoint-2019">https://docs.microsoft.com/en-us/learn/certifications/mos-powerpoint-2019</a>
MSSCN001	MSSC Certified Production Technician (CPT)	Manufacturing Skills Standards Council (MSSC)	CAPE Acceleration Industry Certification	The MSSC Certified Production Technician (CPT) certification measures knowledge and skills to demonstrate mastery of the core competencies for manufacturing production at the front-line (entry-level through front-line supervisor).	4 exams required; 80-90 questions each; 90 minutes each	None	None	None	<a href="http://www.msscusa.org">www.msscusa.org</a>



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MSSCN002	MSSC Certified Logistics Technician (CLT)	Manufacturing Skills Standards Council (MSSC)	CAPE Industry Certification	The Certified Logistics Technician (CLT) Certification measures knowledge and skills in product receiving, product storage, order processing, packaging and shipment, inventory control, safe handling of hazmat materials, evaluation of transportation modes, dispatch and tracking, and measurements and metric conversions.	1 exam required; 96 multiple choice questions; 120 minutes	Individuals must already have their Certified Logistics Associate (CLA) Certificate.	None	None	<a href="http://www.msscusa.org">www.msscusa.org</a>
NASME001	NASM Certified Personal Trainer (CPT)	National Academy of Sports Medicine	CAPE Industry Certification	The National Academy of Sports Medicine - Certified Professional Trainer certification measures individual's ability to perform individualized assessments, and design safe exercise and conditioning programs that are scientifically valid and based on clinical evidence.	1 exam required; 2 hour time limit with 120 test questions, in which 20 are research questions and do not count toward or against the final score. A passing score is 70% or better.	Must have a high school diploma or equivalent. Must have current Emergency Cardiac Care (CPR) and Automated External Defibrillator (AED) Certification prior to sitting for the exam (not required to purchase the CPT).	None	None	<a href="http://www.nasm.org">www.nasm.org</a>
NATEX001	Air Conditioning Service Technician	North American Technician Excellence	CAPE Industry Certification	The Air Conditioning Service Technician certification measures knowledge and skills in installation, service, maintenance, and repair of HVAC systems, with a focus on service. System sizes are limited to 30 tons or less cooling capacity.	2 exam required (a CORE and a Specialty Air Conditioning Installation test); 50 questions on CORE tests and 100 questions on Specialty test; must score 70% or higher on each	None	None	None	<a href="http://www.natex.org/site/353/Technicians/Certification-Basics/101">www.natex.org/site/353/Technicians/Certification-Basics/101</a>
NATEX002	Air Conditioning Installation Specialization	North American Technician Excellence	CAPE Industry Certification	The Air Conditioning Service Technician certification measures knowledge and skills in installation, service, maintenance, and repair of HVAC systems, with a specialization in installation. System sizes are limited to 30 tons or less cooling capacity.	2 exam required (a CORE and a Specialty Air Conditioning Installation test); 50 questions on CORE tests and 100 questions on Specialty test; must score 70% or higher on each	None	None	None	<a href="http://www.natex.org/site/353/Technicians/Certification-Basics/101">www.natex.org/site/353/Technicians/Certification-Basics/101</a>
NATEX003	Air to Air Heat Pump Installation Technician	North American Technician Excellence	CAPE Industry Certification	The Air to Air Heat Pump Installation Technician certification measures knowledge and skills to prepare installation sites (including removal of existing HVAC/R equipment), fabricate systems, and assemble systems.	2 exams required (a CORE and a Specialty Air to Air Heat Pump Installation exam); 50 questions on CORE tests with 90 minutes to complete; 100 questions on Specialty test with 150 minutes to complete.	None	None	None	<a href="http://www.natex.org/site/353/Technicians/Certification-Basics/101">www.natex.org/site/353/Technicians/Certification-Basics/101</a>
NATHA002	Certified EKG Technician (CET)	National Healthcareer Association	CAPE Industry Certification	The Certified EKG Technician (CET) certification is for cardiovascular technologists and technicians who assist physicians in diagnosing and treating cardiac (heart) and peripheral vascular (blood vessel) ailments. Cardiovascular technologists may specialize in any of three areas of practice: invasive cardiology, echocardiography, and vascular technology.	1 exam required; 100 questions; 2 hours	Applicant must be 18 years of age or older, must have completed high school and completed 60 hours of training and performed 10 live EKG's.	None	None	<a href="http://www.nhanow.com">www.nhanow.com</a>
NATHA003	Certified Medical Administrative Assistant (CMAA)	National Healthcareer Association	CAPE Industry Certification	The Certified Medical Administrative Assistant (CMAA) certification ensures individuals have the knowledge of patients' medical records and office management skills; appointment/ scheduling/ correspondence; and mail management skills.	1 exam required; 110 questions; 2 hours 10 minutes	To be eligible for NHA certification, applicants must possess a high school diploma or GED, and have completed a training program or have one year work experience in the field. Individuals who have completed the State of Florida's Medical Administrative Assistant Program may apply to NHA to receive a waiver to take exam prior to high school graduation.	None	None	<a href="http://www.nhanow.com">www.nhanow.com</a>
NATHA006	Certified Patient Care Technician (CPCT)	National Healthcareer Association	CAPE Industry Certification	The Certified Patient Care Technician (CPCT) measures knowledge and skills to provide direct patient care in a variety of healthcare environments. CPCT duties may include basic patient care including feeding, bathing or moving patients and changing linens.	1 exam required; 100 questions; 1 hour 50 minutes	Individuals must be at least 18 years of age and have a high school diploma, or equivalency and must have successfully completed an accredited or approved training program within the last year or must have worked within the past year in the field of certification for a minimum of one year.	None	None	<a href="http://www.nhanow.com">www.nhanow.com</a>
NATHA007	Certified Phlebotomy Technician (CPT)	National Healthcareer Association	CAPE Industry Certification	The Certified Phlebotomy Technician (CPT) measures knowledge and skills to draw blood from patients in hospitals, blood centers, or similar facilities for analysis or other medical purposes. As a CPT, one may perform some or all of the following tasks: basic phlebotomy procedures; Evaluate patients for ability to withstand venipuncture procedure; Explain the venipuncture procedure and answer patient questions; Perform basic point of care testing, such as blood glucose levels on patients; and Prepare blood, urine, and other body fluid specimens for testing according to established standards.	1 exam required; 100 questions; 2 hours	Individuals must have a High School Diploma or the equivalent and have successfully completed a training program or one year of work experience within the field.	None	Training/work experience must include a minimum of 30 successful venipunctures and 10 successful capillary sticks. These venipuncture and capillary sticks must be performed on live individuals. Individuals must provide written proof of training or experience and/or documentation of education completion upon request.	<a href="http://www.nhanow.com">www.nhanow.com</a>
NATHA009	Certified Clinical Medical Assistant (CCMA)	National Healthcareer Association	CAPE Industry Certification	The Certified Clinical Medical Assistant (CCMA) exam tests competencies in foundational knowledge and basic science; anatomy and physiology; clinical patient care; patient care coordination and education; administrative assisting; communication and customer service; and medical law and ethics.	1 exam required; 150 scored items; 3 hours	Candidates must have successfully completed a training program in the health field, and be able to earn a high school diploma or GED within twelve months of earning the certification.	None	None	<a href="http://www.nhanow.com">www.nhanow.com</a>
NATHA010	Certified Pharmacy Technician (CPhT)	National Healthcareer Association	CAPE Industry Certification	The Certified Pharmacy Technician (CPhT) certification measures knowledge and skills to perform work delegated by licensed pharmacists in accordance with state rules and regulations. CPhT's duties may include receiving written prescriptions requests from patients, and sent electronically from doctor's offices, prepare medications including retrieving, counting, pouring, weighing, and measuring, establish and maintain patient profiles, and prepare insurance claim forms and manage inventory.	1 exam required; 100 questions; 2 hours 10 minutes	Individuals must have a High School Diploma or the equivalent and have successfully completed a training program or one year of work experience within the field. Individuals must provide written proof of training or experience and/or documentation of education completion upon request.	None	None	<a href="http://www.nhanow.com">www.nhanow.com</a>
NATHA011	Certified Electronic Health Record Specialist (CEHRS)	National Healthcareer Association	CAPE Industry Certification	The Certified Electronic Health Record Specialist (CEHRS) certification measures knowledge and skills in how to maintain the integrity and protect the privacy and security of patient information. This certification helps an individual demonstrate their proficiency in auditing of patient records for compliance with legal and regulatory requirements perform basic coding to submit claims for reimbursement from insurers and collect patient demographic and insurance information.	1 exam required; 100 questions; 1 hour 50 minutes	The individual must have a High School Diploma or the equivalent and successfully completed a training program or one year of work experience within the field. Individuals must provide written proof of training or experience and/or documentation of education completion upon request. An applicant who is scheduled to graduate from an accredited high school or GED program may receive a provisional certification.	None	Individuals for provisional certification must take and successfully pass the examination no more than 12 months prior to graduation. The provisional certification expires 12 months after the examination date and must be converted to a full certification within that time frame.	<a href="http://www.nhanow.com">www.nhanow.com</a>
NCATT001	Aircraft Electronics Technician (AET)	National Center for Aerospace and Transportation Technologies (NCATT)	CAPE Industry Certification	The Aircraft Electronics Technician (AET) certification prepares individuals for installation, calibration and repair of electronic systems used on aircraft. Aircraft electronics specialists and avionics technicians work closely with the maintenance technicians to keep all aircraft systems operational. This work can take place in an aircraft or in a repair station. The duties include routine electronic maintenance (wiring), troubleshooting or localizing and diagnosing causes of equipment malfunction, replacement of faulty components, tracing circuitry as well as aligning and adjusting repaired equipment.	1 exam required; passing score of 70% or greater required	None	None	None	<a href="http://www.ncatt.org">www.ncatt.org</a>
NCATT003	Aerospace / Aircraft Assembly (AAA)	National Center for Aerospace and Transportation Technologies (NCATT)	CAPE Industry Certification	The NCATT Aerospace / Aircraft Assembler Standard can be used by Aerospace Industry education and training entities to develop lesson plans as part of a complete education and training program focused on aerospace vehicle or aerospace component assembly. The Standard can also be used to develop specialized and/or targeted education and training needs.	1 exam required; Passing score of 70% or more required	None	None	None	<a href="http://www.ncatt.org">www.ncatt.org</a>
NCCER005	NCCER Carpentry - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Carpentry - Level 1 credential measures knowledge and skills in building materials, fasteners and adhesives; hand and power tools; reading plans and elevations; floor systems; wall and ceiling framing; roof framing concrete and reinforcing materials; windows and exterior doors; and basic stair layout.	9 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER008	NCCER Construction Technology (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Construction Technology credential measures knowledge and skills in masonry units and installation techniques; floor systems; ceiling joist and roof framing; roofing applications; wall systems; exterior finishing covers; basic stair layout; electrical safety; residential electrical services; HVAC; drain, waste, and vent (DWV) systems; plastic pipe and fittings; copper pipe and fittings; cabinetmaking; cabinet installation; and construction equipment.	17 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>

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NCCER010	NCCER Electrical - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Electrical - Level 1 credential measures knowledge and skills in electrical safety; electrical circuits; national electrical code; device boxes; hand bending; raceways & fittings; conductors and cables; basic electrical construction drawings; residential electrical services; and electrical test equipment.	12 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER018	NCCER HVAC - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The HVAC - Level 1 credential measures knowledge and skills in trade mathematics; basic electricity; heating; cooling; air distribution systems; basic copper and plastic piping practices; soldering and brazing; and basic carbon steel piping practices.	13 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER025	NCCER Masonry - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Masonry - Level 1 credential measures knowledge and skills in masonry safety; masonry tools and equipment; measurements, drawings, and specifications; mortar; and masonry units and installation techniques.	6 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER026	NCCER Plumbing - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Plumbing - Level 1 credential measures knowledge and skills in plumbing safety; plumbing tools; plumbing math; plumbing drawings; plastic pipe and fittings; copper pipe and fittings; cast-iron pipe and fittings; steel pipe and fittings; plumbing fixtures; DWV systems; and water distribution systems.	12 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER032	NCCER Carpentry - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Carpentry - Level 2 credential measures knowledge and skills in commercial drawings; roofing applications; residential; thermal and moisture protection; exterior finishing; residential; cold-formed steel framing steel framing; drywall installation; drywall finishing; doors and door hardware; suspended ceilings; window, door, floor, and ceiling trim; cabinet installation; and cabinet fabrication.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER033	NCCER Carpentry - Level 3 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Carpentry - Level 3 credential measures knowledge and skills in properties of concrete; rigging equipment; rigging practices; trenching and excavating; reinforcing concrete; foundations and slab-on-grade; vertical formwork; horizontal formwork; handling and placing concrete; and tilt-up wall panels.	10 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER034	NCCER Carpentry - Level 4 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Carpentry - Level 4 credential measures knowledge and skills in differential leveling; angular and distance measurement; advanced roof systems; advanced wall systems; advanced stair systems; construction equipment; and oxyfuel cutting and arc welding.	8 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER036	NCCER Concrete Finishing - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Concrete Finishing - level 1 credential measures knowledge and skills in properties of concrete; tools and equipment; preparing for placement; placing concrete; finishing; curing and protecting concrete; and troubleshooting.	9 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER038	NCCER Electrical - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Electrical - Level 2 credential measures knowledge and skills in alternating current; motors; electric lighting; conduit bending; pull and junction boxes; conductor installations; cable tray; conductor terminations and splices; grounding and bonding; circuit breakers and fuses; and control systems.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER039	NCCER Electrical - Level 3 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Electrical - Level 3 credential measures knowledge and skills in load calculations - branch circuits; conductor selection and calculations; lighting; hazardous locations; overcurrent protection; distribution equipment; transformers; commercial electrical services; motor calculations; voice, data, & video; and motor controls.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER040	NCCER Electrical - Level 4 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Electrical - Level 4 credential measures knowledge and skills in load calculations feeders & services; health care facilities; standby and emergency systems; basic electronic theory; fire alarm systems; specialty transformers; HVAC controls; heat tracing and freeze protection; motor operation and maintenance; medium-voltage terminations/splices; special locations; and fundamentals of crew leadership.	13 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER044	NCCER Masonry - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Masonry - Level 2 credential measures knowledge and skills in residential plans and drawing interpretation; residential masonry; reinforced masonry; masonry openings and metal work; advanced laying techniques; effect of climate on masonry; and construction inspection and quality control.	7 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER045	NCCER Masonry - Level 3 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Masonry - Level 3 credential measures knowledge and skills in elevated masonry; specialized materials and techniques; repair and restoration; commercial drawings; estimating; site layout - distance, measurement and leveling; stone masonry; and fundamentals of crew leadership.	8 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER061	NCCER Welding- Level 1	NCCER	CAPE Industry Certification	The Welding - Level 1 credential measures knowledge and skills in welding safety; oxyfuel cutting; plasma arc cutting; air carbon arc cutting and gouging; base metal preparation; weld quality; SMAW - equipment and setup; SMAW electrodes; SMAW - beads and fillet welds; joint fit-up and alignment; SMAW - groove welds with backing; and SMAW - open root groove welds - plate form.	12 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org/workforce-development-programs/disciplines/craft-details/welding">http://www.nccer.org/workforce-development-programs/disciplines/craft-details/welding</a>
NCCER062	NCCER Welding - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Welding - Level 2 credential measures knowledge and skills in welding symbols; reading welding detail drawings; physical characteristics and mechanical properties of metal; preheating and post heating of metals; GMAW and FCAW - equipment and filler metals; GMAW - plate; FCAW - plate; gtaw - equipment and filler metals; and GTAW - plate.	9 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER069	NCCER Plumbing - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Plumbing - Level 2 credential measures knowledge and skills in reading commercial drawings; structural penetrations, insulating, and firestopping; installing and testing DWV piping; installing roof, floor, and area drains; types of valves; installing and testing water supply piping; installing fixtures and valves; installing water heaters; basic electricity; and fuel gas systems.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER070	NCCER Plumbing - Level 3 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Plumbing - Level 3 credential measures knowledge and skills in sizing and protecting the water supply system; potable water supply treatment; types of venting; sizing DWV and storm systems; sewage pumps and sump pumps; corrosive resistant waste piping; compressed air; and service plumbing.	9 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER071	NCCER Plumbing - Level 4 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Plumbing - Level 4 credential measures knowledge and skills in business principles for plumbers; fundamentals of crew leadership; water pressure booster and recirculation systems; indirect and special waste; hydronic and solar heating systems; codes; private water supply well systems; private waste disposal systems; swimming pools and hot tubs; plumbing for mobile homes and travel trailer parks; and medical gas and vacuum systems.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER081	NCCER HVAC - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The HVAC - Level 2 credential measures knowledge and skills in alternating current; compressors; refrigerants and oils; leak detection, evacuation, recovery and charging; metering devices; heat pumps; basic maintenance; chimneys, vents, flues; sheet metal duct systems; fiberglass and flexible duct systems; commercial airside systems; air quality equipment; and hydronic systems.	13 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER082	NCCER HVAC - Level 3 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The HVAC - Level 3 credential measures knowledge and skills in fasteners, hardware, and wiring terminations; control circuit and motor troubleshooting; troubleshooting cooling; troubleshooting heat pumps; troubleshooting gas heating; troubleshooting oil heating; troubleshooting accessories; zoning, ductless, and variable refrigerant flow systems; commercial hydronic systems; steam systems; retail refrigeration systems; and customer relations.	12 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>

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NCCER083	NCCER HVAC - Level 4 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The HVAC - Level 4 credential measures knowledge and skills in water treatment; indoor air quality; energy conservation equipment; building management systems; system air balancing; system startup and shutdown; construction drawings and specifications; heating and cooling system design; commercial/industrial refrigeration systems; alternative and specialized heating and cooling systems; and fundamentals of crew leadership.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER084	NCCER Industrial Maintenance Mechanic - Level 1 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Industrial Maintenance Mechanic - Level 1 credential measures knowledge and skills in fasteners and anchors; oxyfuel cutting; gaskets and packing; craft-related mathematics; construction drawings; pumps and drivers; valves; test instruments; material handling and hand rigging; mobile and support equipment; and lubrication.	11 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER085	NCCER Industrial Maintenance Mechanic - Level 2 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Industrial Maintenance Mechanic - Level 2 credential measures knowledge and skills in basic layout; piping components; copper and plastic piping practice; ferrous metal piping practices; identifying, installing and maintaining valves; hydrostatic & pneumatic testing; bearings; low-pressure steam systems; high pressure steam systems and auxiliaries; distillation towers and vessels; heaters, furnaces, heat exchangers, cooling towers, and fin fans; and tube work.	12 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCCER086	NCCER Industrial Maintenance Mechanic - Level 3 (Secondary)	National Center for Construction Education & Research (NCCER)	CAPE Industry Certification	The Industrial Maintenance Mechanic - Level 3 credential measures knowledge and skills in advanced trade math; precision measuring tools; installing bearings; installing couplings; setting baseplates and prealignment; conventional alignment; installing belt and chain drives; and installing mechanical seals.	8 module-based written and performance exams are required.	None	None	The CORE: Introduction to Craft Skills certification is required for all NCCER trades.	<a href="http://www.nccer.org">www.nccer.org</a>
NCFCT001	National Certified ECG Technician (NCET)	National Center for Competency Testing (NCCT)	CAPE Industry Certification	The ECG Technician certification exam tests competencies in electrode placement, recording the ECG, preparing reports, patient comfort and safety, and troubleshooting abnormalities with the recording.	1 exam required; 125 scored items; 25 unscored pretest items; 3 hours	None	None	Student candidates must submit a copy of their ECG Technician diploma, certificate of completion, or official (signed) transcript with graduation date. All required documents must be submitted within two years after successful program completion in order for the certification to be released.	<a href="http://www.ncctinc.com">www.ncctinc.com</a>
NCFCT003	National Certified Phlebotomy Technician	National Center for Competency Testing (NCCT)	CAPE Industry Certification	The Phlebotomy certification exam tests competencies in venipuncture, micro-collection, and specimen processing and handling while maintaining patient safety and confidentiality.	1 exam required; 125 scored items; 25 unscored pretest items; 3 hours	None	None	Student candidates must submit a copy of their Phlebotomy Technician diploma, certificate of completion, or official (signed) transcript with graduation date as well as a Phlebotomy Technician Certification Critical Skill Competency form. All required documents must be submitted within two years after successful program completion in order for the certification to be released.	<a href="http://www.ncctinc.com">www.ncctinc.com</a>
	Medical Assistant	National Center for Competency Testing (NCCT)	CAPE Industry Certification	The Medical Assistants certification exam prepares candidates for professions in allied healthcare responsible for various clinical and/or administrative duties. Medical Assistants perform clinical functions including but not limited to direct patient care and preparation, ECG, phlebotomy, and pharmacology while maintaining patient safety and confidentiality. They may also perform administrative duties such as scheduling appointments, maintaining patient records, bookkeeping, and billing and insurance processing.	1 exam required; 150 scored items; 15 unscored pretest items; 3 hours	None	None	None	<a href="https://www.ncctinc.com/certifications/ma">https://www.ncctinc.com/certifications/ma</a>
NCFCT007	National Certified Medical Office Assistant (NCMOA)	National Center for Competency Testing (NCCT)	CAPE Industry Certification	The Medical Office Assistant certification exam tests competencies in scheduling, communicating (with healthcare professionals, patients and third party payers), handling medical records, and financial management while maintaining compliance with state and federal regulations.	1 exam required; 125 scored items; 25 unscored pretest items; 3 hours	None	None	Student candidates must submit a copy of their Medical Office Assistant diploma, certificate of completion, or official (signed) transcript with graduation date. All required documents must be submitted within two years after successful program completion in order for the certification to be released.	<a href="http://www.ncctinc.com">www.ncctinc.com</a>
NCFCT008	National Certified Patient Care Technician (NCPCT)	National Center for Competency Testing (NCCT)	CAPE Industry Certification	The Patient Care Technician certification exam tests competencies in basic nursing assistant tasks (as delegated by the nursing or medical staff) which may include obtaining patient vital signs and other data, communicating with the healthcare team and patients, assisting with activities of daily living (ADLs), complying with confidentiality requirements, and performing ECGs and phlebotomy tasks.	1 exam required; 125 scored items; 25 unscored pretest items; 3 hours	None	None	Student candidates must submit a copy of their Patient Care Technician diploma, certificate of completion, or official (signed) transcript with graduation date. All required documents must be submitted within two years after successful program completion in order for the certification to be released.	<a href="http://www.ncctinc.com">www.ncctinc.com</a>
NCSBN002	National Licensed Practical Nurse (NCLEX-PN)	National Council of State Boards of Nursing	CAPE Industry Certification	The National Licensed Registered Nurse (NCLEX-RN) exam measures knowledge and skills to monitor, record, and report symptoms or changes in patients' conditions; maintain accurate, detailed reports and records; record patients' medical information and vital signs; order, interpret, and evaluate diagnostic tests to identify and assess patient's condition; modify patient treatment plans as indicated by patients' responses and conditions; direct or supervise less-skilled nursing or healthcare personnel or supervise a particular unit; consult and coordinate with healthcare team members to assess, plan, implement, or evaluate patient care plans; monitor all aspects of patient care, including diet and physical activity; instruct individuals, families, or other groups on topics such as health education, disease prevention, or childbirth and develop health improvement programs; and prepare patients for and assist with examinations or treatments.	1 exam required; 85 to 205 questions; 5 hour time limit	None	None	A student must complete the requirements (set by the Board of Nursing (BON)) of an approved and/or accredited program/school (licensed by & meets BON expectations) and graduate.	<a href="http://www.ncsbn.org/nclex.htm">www.ncsbn.org/nclex.htm</a>
NIASE005	ASE Automobile/Light Truck Technician: Automatic Transmission/Transaxle (A2)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Automatic Transmission/Transaxle (A2) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair automatic transmission/transaxle.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE007	ASE Automobile/Light Truck Technician: Brakes (A5)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Brakes (A5) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair brakes.	1 exam required; 55 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE008	ASE Automobile/Light Truck Technician: Electrical/Electronic Systems (A6)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Electrical/Electronic Systems (A6) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair electrical/electronic systems.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE009	ASE Automobile/Light Truck Technician: Engine Performance (A8)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Engine Performance (A8) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair engine performance.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE010	ASE Automobile/Light Truck Technician: Engine Repair (A1)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Engine Repair (A1) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair engines.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE011	ASE Automobile/Light Truck Technician: Heating and Air Conditioning (A7)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Heating and Air Conditioning (A7) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair heating and air conditioning.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE012	ASE Automobile/Light Truck Technician: Manual Drive Train and Axles (A3)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Manual Drive Train and Axles (A3) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair manual drive train and axles.	1 exam required; 50 questions; 60 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE014	ASE Automobile/Light Truck Technician: Suspension and Steering (A4)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Suspension and Steering (A4) certification identifies and recognizes those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair suspension and steering.	1 exam required; 50 questions; 60 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE016	ASE Medium/Heavy Truck Technician: Brakes (T4)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Brakes (T4) certification identifies and recognizes those medium/heavy duty truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair brakes.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>

DOE Code	Certification/Credential Title	Issuing Organization/Provider	Type (CAPE Industry Certification, CAPE Acceleration Industry Certification, CAPE Digital Tool Certificate)	Certification/Credential Description	Written Exam Requirements	Other Requirements (Age, program completion, etc.)	Work Experience	Additional Information	Agency Website
NIASE017	ASE Collision Repair and Refinishing Technician: Mechanical and Electrical Components (B5)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Mechanical and Electrical Components (B5) certification identifies and recognizes those collision repair technicians and refinishers who can demonstrate knowledge of the skills necessary to make collision repairs related to mechanical and electrical components.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE020	ASE Medium/Heavy Truck Technician: Diesel Engines (T2)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Diesel Engines (T2) certification identifies and recognizes those medium/heavy duty truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair diesel engines.	1 exam required; 65 questions; 90 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE021	ASE Medium/Heavy Truck Technician: Drive Train (T3)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Drive Train (T3) certification identifies and recognizes those medium/heavy duty truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair drive trains.	1 exam required; 50 questions; 60 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE023	ASE Medium/Heavy Truck Technician: Electrical/Electronic Systems (T6)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Electrical/Electronic Systems (T6) certification identifies and recognizes those medium/heavy duty truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair electrical/electronic systems.	1 exam required; 60 questions; 90 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE026	ASE Medium/Heavy Truck Technician: Heating, Ventilation, and A/C (HVAC) (T7)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Heating, Ventilation, and A/C (HVAC) (T7) certification identifies and recognizes those medium/heavy duty truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair HVAC.	1 exam required; 50 questions; 60 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE029	ASE Collision Repair and Refinishing Technician: Painting and Refinishing (B2)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Painting and Refinishing (B2) certification identifies and recognizes those collision repair technicians and refinishers who can demonstrate knowledge of the skills necessary to make collision repairs related to painting and refinishing.	1 exam required; 65 questions; 90 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE031	ASE Medium/Heavy Truck Technician: Preventive Maintenance Inspection (PMI) (T8)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Preventive Maintenance Inspection (PMI) (T8) certification identifies and recognizes those medium/heavy duty truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair PMI.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE033	ASE Medium/Heavy Truck Technician: Suspension and Steering (T5)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Suspension and Steering (T5) certification provides an assessment of individual's knowledge of the skills necessary to diagnose, service, and repair different systems of Class 4 through Class 8 trucks and tractors.	1 exam required; 60 questions; 75 minutes	None	2 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE076	ASE Auto Maintenance and Light Repair (G1)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE - Auto Maintenance & Light Repair (G1) certification provides an assessment of an individual's technical knowledge of bumper-to-bumper maintenance and light repairs in the critical areas of engine systems, automatic transmission/transaxle, manual drive train and axles, suspension & steering, brakes, electrical, and heating & air conditioning.	1 exam required; 55 questions; 90 minutes	None	1 years of work experience is required.	None	<a href="http://www.ase.com">www.ase.com</a>
NIASE077	ASE Entry-level - Auto: Automatic Transmission/Transaxle (AT)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Automatic Transmission/Transaxle (AT) certification tests knowledge in general transmission and transaxle diagnosis, in-vehicle transmission/transaxle maintenance and repair, and off-vehicle transmission and transaxle repair.	1 exam required; 40 questions; 22 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE078	ASE Entry-level - Auto: Automobile Service Technology (AS)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Automobile Service Technology (AS) certification tests knowledge in engine repair; automatic transmission and transaxle; manual drive train and axles; suspension and steering; brakes; electrical/electronic systems; heating and air conditioning; engine performance; and supplemental tasks.	1 exam required; 80 questions; 45 of 80 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE079	ASE Entry-level - Auto: Brakes (BR)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Brakes (BR) certification tests knowledge in general brake systems diagnosis; hydraulic system diagnosis and repair; drum brake diagnosis and repair; disc brake diagnosis and repair; power-assist units diagnosis and repair; miscellaneous (wheel bearings, parking brakes, electrical); and electronic brake control systems (ABS, TCS and ESC, D&R).	1 exam required; 40 questions; 21 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE080	ASE Entry-level - Auto: Electrical/Electronic Systems (EE)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Electrical/Electronic Systems (EE) certification tests knowledge in general electrical system diagnosis; battery diagnosis and service; starting system diagnosis and repair; charging system diagnosis and repair; lighting systems diagnosis and repair; instrument cluster and driver information systems D&R; and body electrical systems diagnosis and repair.	1 exam required; 40 questions; 20 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE081	ASE Entry-level - Auto: Engine Performance (EP)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Engine Performance (EP) certification tests knowledge in general engine diagnosis; computerized controls diagnosis and repair; ignition system diagnosis and repair; fuel, air induction, and exhaust systems diagnosis and repair; and emissions control systems diagnosis and repair.	1 exam required; 40 questions; 21 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE082	ASE Entry-level - Auto: Engine Repair (ER)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Engine Repair (ER) certification tests knowledge in general engine diagnosis, removal and reinstallation; cylinder head and valve train diagnosis and repair; engine block assembly diagnosis and repair; and lubrication and cooling systems diagnosis and repair.	1 exam required; 40 questions; 22 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE083	ASE Entry-level - Auto: Heating and Air Conditioning (AC)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Heating and Air Conditioning (AC) certification tests knowledge in general A/C system diagnosis and repair; refrigeration system component diagnosis and repair; heating, ventilation, and engine cooling systems diagnosis and repair; operating systems and related controls diagnosis and repair; and refrigerant recovery, recycling, and handling.	1 exam required; 40 questions; 20 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE084	ASE Entry-level - Auto: Manual Drive Train and Axles (MD)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Manual Drive Train and Axles (MD) certification tests knowledge in drive train diagnosis; clutch diagnosis and repair; transmission/transaxle diagnosis and repair; drive shaft and half shaft, universal and CV joint; drive axle diagnosis and repair; and four-wheel drive/all-wheel drive component diagnosis and repair.	1 exam required; 40 questions; 21 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE085	ASE Entry-level - Auto: Suspension and Steering (SS)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Auto: Suspension and Steering (SS) certification tests general suspension and steering systems; steering systems diagnosis and repair; suspension systems diagnosis and repair; related suspension and steering service; wheel alignment diagnosis, adjustment, and repair; and wheels and tires diagnosis and repair.	1 exam required; 40 questions; 20 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE086	ASE Entry-level - Collision: Mechanical and Electrical (ME)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Collision: Mechanical and Electrical (ME) certification tests knowledge in suspension and steering; electrical; brakes; heating and air conditioning; cooling systems; drive train; fuel, intake and exhaust systems; and restraint systems.	1 exam required; 40 questions; 22 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE087	ASE Entry-level - Collision: Non-structural Analysis and Damage Repair (NS)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Collision: Non-structural Analysis and Damage Repair (NS) certification tests knowledge in preparation; outer body panel repair, replacements, and adjustments; metal finishing and body filling; moveable glass and hardware; metal welding and cutting; and plastics and adhesives.	1 exam required; 40 questions; 22 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE088	ASE Entry-level - Collision: Painting and Refinishing (PR)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Collision: Painting and Refinishing (PR) certification tests knowledge in safety precautions; surface preparation; spray gun and related equipment operation; paint mixing, matching, and applying; paint defects – cause and cures; and final detail.	1 exam required; 40 questions; 23 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE089	ASE Entry-level - Collision: Structural Analysis and Damage Repair (SR)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Collision: Structural Analysis and Damage Repair (SR) certification tests knowledge in frame inspection and repair; unibody and unitized structure inspection, measurement, and repair; stationary glass; and metal welding and cutting.	1 exam required; 40 questions; 22 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE090	ASE Entry-level - Truck: Brakes (TB)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Truck: Brakes (TB) certification tests knowledge in air brakes; hydraulic brakes; air and hydraulic antilock brake systems and automatic traction control; and wheel bearings.	1 exam required; 40 questions; 20 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE091	ASE Entry-level - Truck: Diesel Engines (DE)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Truck: Diesel Engines (DE) certification tests knowledge in general diesel engine inspection; cylinder head and valve train; engine block; lubrication system; cooling system; air induction, exhaust systems and engine brakes; and fuel system.	1 exam required; 40 questions; 21 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE092	ASE Entry-level - Truck: Electrical/Electronic Systems (TE)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Truck: Electrical/Electronic Systems (TE) certification tests knowledge in general electrical systems; battery; starting systems; charging system diagnosis and repair; lighting systems; gauges and warning devices; and related electrical systems.	1 exam required; 40 questions; 21 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>
NIASE093	ASE Entry-level - Truck: Steering & Suspension (TS)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Truck: Steering & Suspension (TS) certification tests knowledge in steering systems; suspension systems; wheel alignment diagnosis, adjustment, and repair; wheels and tires; and frame and coupling devices.	1 exam required; 40 questions; 20 of 40 required to pass	None	None	None	<a href="http://www.ase.com/entry-level/">http://www.ase.com/entry-level/</a>

DOE Code	Certification/Credential Title	Issuing Organization/Provider	Type (CAPE Industry Certification, CAPE Acceleration Industry Certification, CAPE Digital Tool Certificate)	Certification/Credential Description	Written Exam Requirements	Other Requirements (Age, program completion, etc.)	Work Experience	Additional Information	Agency Website
NIASE094	ASE Entry-level - Truck: Inspection, Maintenance, and Minor Repair (IM)	National Institute for Automotive Service Excellence	CAPE Industry Certification	The ASE Entry-level - Truck: Inspection, Maintenance, and Minor Repair (IM) certification exam tests competencies in diesel engines, drive train, brakes, suspension and steering, electrical/electronic systems, HVAC, and cab.	1 exam required; 60 questions; 36 required to pass	None	None	None	<a href="http://www.ase.com/entry-level">www.ase.com/entry-level</a>
NIFMS001	NIMS Machining Level I - CNC Milling: Programming Setup & Operations	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The CNC Milling: Programming Setup & Operations certification measures knowledge and skills in CNC milling; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required	Performance project must be completed prior to taking the exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS002	NIMS Machining Level I - CNC Turning: Programming Setup & Operations	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The CNC Turning: Programming Setup & Operations certification measures knowledge and skills in CNC turning; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required	Performance project must be completed prior to taking the exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS008	NIMS Machining Level I - Turning Operations: Turning Between Centers	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The Turning Operations: Turning Between Centers certification measures knowledge and skills in turning between centers; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required	Performance project must be completed prior to taking the exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS010	NIMS Machining Level I - Turning Operations: Turning Chucking Skills	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The Turning Operations: Turning Chucking Skills certification measures knowledge and skills in turning chucking skills; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required	Performance project must be completed prior to taking the exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS013	NIMS Machining Level I - Drill Press Skills I	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The Drill Press Skills I certification measures knowledge and skills in drill press skills; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required	Performance project must be completed prior to taking the exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS014	NIMS Machining Level I - CNC Milling: Operations	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The CNC Milling: Operations certification measures knowledge and skills in CNC milling; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required, 48 questions	Performance project must be completed prior to taking exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS016	NIMS Machining Level I - Grinding Skills I	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The Grinding Skills I certification measures knowledge and skills in grinding skills; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required, 47 questions	Performance project must be completed prior to taking exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS017	NIMS Machining Level I - Manual Milling Skills I	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The Manual Milling Skills I certification measures knowledge and skills in manual milling; quality control and inspection; process improvement and adjustment; general maintenance; and industrial safety and environmental protection.	1 exam required, 56 questions	Performance project must be completed prior to taking exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NIFMS019	NIMS Machining Level II - CNC Milling Skills II	National Institute for Metalworking Skills (NIMS)	CAPE Industry Certification	The CNC Milling Skills II certification measures knowledge and skills in CNC milling including program writing and operating a CNC mill.	1 exam required, 70 questions	Performance project must be completed prior to taking exam.	None	None	<a href="http://www.nims-skills.org">www.nims-skills.org</a>
NRAEF003	Certified Food Protection Manager (ServSafe®)	National Restaurant Association Educational Foundation	CAPE Industry Certification	The Certified Food Protection Manager (ServSafe®) certification measures knowledge and skills in FDA Food Code, food safety research and food sanitation training.	1 exam required	None	None	None	<a href="http://www.nraef.org">www.nraef.org</a>
NREMT001	Emergency Medical Technician (EMT)	National Registry of Emergency Medical Technicians	CAPE Industry Certification	The Emergency Medical Technician (EMT) certification verifies that an individual is trained and certified to appraise and initiate the administration of emergency care for victims of trauma or acute illness before or during transportation of victims to a health care facility.	2 exams required (cognitive and psychomotor); Cognitive exam: online; 70-120 questions; 2 hours; Psychomotor exam: Individual must demonstrate competence (performance based).	None	None	None	<a href="http://www.nremt.org">www.nremt.org</a>
NREMT003	Emergency Medical Responder	National Registry of Emergency Medical Technicians	CAPE Industry Certification	The Emergency Medical Responder certification tests competencies on the knowledge and skills necessary to provide immediate lifesaving interventions while awaiting additional EMS resources to arrive. EMRs also provide assistance to higher-level personnel at the scene of emergencies and during transport. Under medical oversight, Emergency Medical Responders perform basic interventions with minimal equipment.	2 exams required (cognitive and psychomotor); Cognitive exam: online; 90-110 questions; 1 hour and 45 minutes; Psychomotor exam: candidate must demonstrate competence (performance based). All EMR psychomotor exams are administered by either the State EMS Office or at the training institution (with approval and oversight provided by the State EMS Office).	None	None	None	<a href="https://www.nremt.org/EMR/Certification">https://www.nremt.org/EMR/Certification</a>
NRFSP001	Certified Food Safety Manager	National Registry of Food Safety Professionals	CAPE Industry Certification	The Certified Food Safety Manager certification measures knowledge and skills in food safety standards to demonstrate knowledge and skills meet measurable and specified food safety standards adopted by the Conference for Food Protection to protect the public from foodborne illnesses.	1 exam required	None	None	None	<a href="http://www.nrfsp.com/">www.nrfsp.com/</a>
NRFSP002	HACCP Certification	National Registry of Food Safety Professionals	CAPE Industry Certification	The HACCP (Hazard Analysis and Critical Control Point) Certification exam tests competencies in preliminary activities; hazard analysis; detailed control measures; verification activities; and implementation and continuous improvement activities	1 exam required	Candidates must submit a signed Examinee Consent Form and agree to the Code of Conduct to be eligible to sit for the certification	None	None	<a href="http://www.nrfsp.com">www.nrfsp.com</a>
OEDGP001	PCAP – Certified Associate in Python Programming	OpenEDG Python Institute	CAPE Industry Certification	The PCAP – Certified Associate in Python Programming certification shows that the individual is familiar with general computer programming concepts like conditional execution, loops, Python programming language syntax, semantics and the runtime environment, as well as with general coding techniques and object-oriented programming.	1 exam required; 65 minutes; 40 questions; single-choice and multiple-choice questions; minimum passing score of 70%	None	None	None	<a href="https://pythoninstitute.org/certification/pcap-certification-associate/">https://pythoninstitute.org/certification/pcap-certification-associate/</a>
ORACL004	Oracle Certified Associate (OCA): Java Programmer	Oracle Corporation	CAPE Industry Certification	The OCA Java Programmer certification is designed for individuals who possess a strong foundation in the Java Programming language. This certification covers the fundamentals of Java programming, such as the significance of object-oriented programming and the steps to create simple Java technology programs.	1 of 2 exams required (specific to the Java version); Java SE5/SE 6 exam (1Z0-850), Java SE7 exam (1Z0-803)	None	None	None	<a href="http://www.oracle.com">www.oracle.com</a>
ORACL005	Oracle Certified Professional (OCP): Java Programmer	Oracle Corporation	CAPE Industry Certification	The OCP Java Programmer certification is designed for individuals who possess a strong foundation in the Java Programming language as well as proven skill in creating Java technology programs. This certification covers core Application Programming interfaces used to design object-oriented applications with Java, as well as insight into Java applications such as those that manipulate files, directories and file systems.	1 of 3 exams required (specific to the Java version); OCP Java SE5 exam (1Z0-853), OCP Java SE6 exam (1Z0-851), OCP Java SE7 exam (1Z0-804)	None	None	None	<a href="http://www.oracle.com">www.oracle.com</a>
PRMIN004	PMI Project Management Ready	Project Management Institute (PMI)	CAPE Industry Certification	The PMI Project Management Ready certification presents the tools needed to apply project management knowledge to a wide range of career paths. The certification exam test competencies in the following topics: project management fundamentals and core concepts; traditional plan-based methodologies; agile frameworks/methodologies; and business analyst frameworks.	1 exam required; 47 questions; 50 minutes	None	None	None	<a href="https://www.pmi.org/certifications/pmi-project-management-ready">https://www.pmi.org/certifications/pmi-project-management-ready</a>
PRODL801	Coding in Minecraft	Prodigy Learning	CAPE Digital Tool Certificate	Coding in Minecraft measures knowledge and skills in computer science and coding through game-based learning.	1 exam required; 30 questions; 50 minutes	None	None	None	<a href="http://www.certipoint.com">www.certipoint.com</a>
PROSO003	Certified Internet Web (CIW) E-Commerce Specialist	Certification Partners	CAPE Industry Certification	The Certified Internet Web (CIW) E-Commerce Specialist certification measures knowledge and skills on how to conduct business online and manage the technical issues associated with constructing an e-commerce Web site. Individuals learn about the similarities and differences between traditional and electronic commerce, and will explore e-commerce technologies at various levels of sophistication.	1 exam required ( 1D0-525); 72 questions; 75 minutes; passing score of 68% or more required	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-design-series">https://www.ciwcertified.com/ciw-certifications/web-design-series</a>
PROSO006	Certified Internet Web (CIW) Database Design Specialist	Certification Partners	CAPE Industry Certification	The CIW Database Design Specialist certification provides introductory vendor-neutral training for individuals planning to pursue product-focused database specialization. Competencies include DB2, Oracle Database 11g, MS SQL and MySQL, as well as Structured Query Language (SQL) and database optimization through normalization.	1 exam required (1D0-541); 50 questions; 90 minutes; passing score of 75% or more required	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-development-series">https://www.ciwcertified.com/ciw-certifications/web-development-series</a>

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PROSO017	Certified Internet Web (CIW) JavaScript Specialist	Certification Partners	CAPE Industry Certification	The Certified Internet Web (CIW) JavaScript Specialist certification measures knowledge and skills on how to use the JavaScript language. Competencies tested include essential principles and practices, debugging and troubleshooting code, control program flow, document object model (DOM), language objects and expressions, custom objects, modify HTML, interactive forms, security issues involving browsers and cookies, libraries and frameworks, interactive Web applications and implementing Web application programming interfaces.	1 exam required (1D0-735); 55 questions; 90 minutes; passing score of 70.91% or more required	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-development-series">https://www.ciwcertified.com/ciw-certifications/web-development-series</a>
PROSO021	Certified Internet Web (CIW) Web Design Professional	Certification Partners	CAPE Industry Certification	The Certified Internet Web (CIW) Web Design Professional certification requires individuals to prove their understanding in the areas of web site design and e-commerce. Individuals must be able to develop and maintain web sites using authoring and scripting languages, create content and digital media, and employ standards and technologies for business-to-business and business-to-consumer e-commerce web sites.	2 exams required (CIW Web Design Specialist and CIW E-Commerce Specialist)	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-design-series">https://www.ciwcertified.com/ciw-certifications/web-design-series</a>
PROSO022	Certified Internet Web (CIW) Web Design Specialist	Certification Partners	CAPE Industry Certification	The Certified Internet Web (CIW) Web Design Specialist certification measures knowledge and skills in how to design and publish web sites. General topics include web site development essentials (such as the site development process, customer expectations, and ethical and legal issues in web development), web design elements (such as aesthetics, the site user's experience, navigation, usability and accessibility), basic web technologies (such as basic Hypertext Markup Language [HTML], Extensible HTML [XHTML] and extended technologies, image files, GUI site development applications, site publishing and maintenance) and advanced web technologies (such as multimedia and plug-in technologies, client-side and server-side technologies, and Web databases).	1 exam required (1D0-520); 70 questions; 75 minutes; passing score of 70% or more is required	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-design-series">https://www.ciwcertified.com/ciw-certifications/web-design-series</a>
PROSO023	Certified Internet Web (CIW) Web Development Professional	Certification Partners	CAPE Industry Certification	The CIW Web Development Professional certification measures knowledge and skills in front-end scripting language, a back-end programming language and the skills to integrate with a database.	3 exams required (CIW JavaScript Specialist, CIW Perl Specialist, and CIW Database Design Specialist)	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-development-series">https://www.ciwcertified.com/ciw-certifications/web-development-series</a>
PROSO024	Certified Internet Web (CIW) Web Foundations Associate	Certification Partners	CAPE Industry Certification	The Certified Internet Web (CIW) Web Foundations Associate certification measures knowledge and skills in Internet business, data networking and web site design. This certification measures knowledge and skills for specialties in web design, e-commerce, JavaScript, databases and other fields.	1 exam required (1D0-610); 90 questions; 90 minutes; passing score of 63.33 or more is required <b>OR</b> 3 exams required: Internet Business Associate (1D0-61A), Site Development Associate (1D0-61B), and Network Technology Associate (1D0-61C); each exam is 30 minutes and has 30 questions	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-foundations-series">https://www.ciwcertified.com/ciw-certifications/web-foundations-series</a>
PROSO025	Certified Internet Web (CIW) Web Security Associate	Certification Partners	CAPE Industry Certification	The Certified Internet Web (CIW) Web Security Associate certification measures knowledge and skills in how to secure networks from unauthorized activity, including security principles, such as establishing an effective security policy, and about the different types of hacker activities that individuals in this field are most likely to encounter.	3 exams required (CIW Foundations, CIW Server Administrator, and CIW Internetworking Professional)	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-security-series">https://www.ciwcertified.com/ciw-certifications/web-security-series</a>
PROSO027	Certified Internet Web (CIW) Advanced HTML5 & CSS3 Specialist	Certification Partners	CAPE Industry Certification	The CIW Advanced HTML5 and CSS3 Specialist certification tests essential HTML5, Cascading Style Sheets (CSS) and JavaScript knowledge. These technologies, known as the web development trifecta, provide web pages that easily adapt to smartphones, tablets, gaming devices and smart TVs, as well as to traditional PCs.	1 exam required (1D0-620); 55 questions; 75 minutes; 72.73% passing score	None	None	None	<a href="https://www.ciwcertified.com/ciw-certifications/web-and-mobile-design-series/advanced-html5-and-css3-specialist">https://www.ciwcertified.com/ciw-certifications/web-and-mobile-design-series/advanced-html5-and-css3-specialist</a>
PROSO030	Certified Internet Web (CIW) Data Analyst Specialist	Certification Partners	CAPE Industry Certification	The Data Analyst Specialist certification exam tests knowledge in data analysis fundamentals, big data, working with data sources, tools for capturing and analyzing data, and analyzing and reporting data.	1 exam required (1D0-622); 48 questions; 75 minutes; passing score of 75% or more required	None	None	None	<a href="http://www.ciwcertified.com/ciw-certifications">www.ciwcertified.com/ciw-certifications</a>
PROSO031	Certified Internet Web (CIW) Social Media Strategist	Certification Partners	CAPE Industry Certification	The Social Media Strategist certification exam tests knowledge in social media; social media in business; campaigns; platforms; presentations and blogs; risk, reputation and crisis management; advertising; metrics and analysis; and reporting and optimization.	1 exam required (1D0-623); 55 questions; 90 minutes; passing score of 76.36% or more required	None	None	None	<a href="http://www.ciwcertified.com/ciw-certifications">www.ciwcertified.com/ciw-certifications</a>
PROSO032	Certified Internet Web (CIW) User Interface Designer	Certification Partners	CAPE Industry Certification	The User Interface Designer certification exam tests knowledge in design projects; process; web design; design principles; color, typography, layout, and wireframing; designing basic web page user interface; web site navigation concepts; designing an interactive web page user interface; user interface design and search engine optimization strategies.	1 exam required (1D0-621); 54 questions; 75 minutes; passing score of 74.07% or more required	None	None	None	<a href="http://www.ciwcertified.com/ciw-certifications">www.ciwcertified.com/ciw-certifications</a>
PROSO801	ICT – Database Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT – Database Essentials certification measures knowledge and skills in the fundamentals of using relational databases, including row and field structure, data types, tables, queries, data import/export mechanisms, and basic Structured Query Language (SQL) statements for managing and manipulating data and creating reports.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/database.php">http://www.ictcertified.com/ict-essentials/database.php</a>
PROSO802	ICT – Gaming Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT – Gaming Essentials certification measures knowledge and skills in the fundamentals of interactive computer game creation, including design process, criteria and constraint identification, content research, storyboard creation, program flow modeling, program code creation, and result evaluation and modification practices.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/gaming.php">http://www.ictcertified.com/ict-essentials/gaming.php</a>
PROSO803	ICT – Multimedia Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT – Multimedia Essentials certification measures knowledge and skills in the fundamentals of designing and creating digital slide presentations, including formatting basics, slide transitions, animation, timing, titling, and integration of images, graphics, audio/video and other compatible files.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/multimedia.php">http://www.ictcertified.com/ict-essentials/multimedia.php</a>
PROSO804	ICT – Programming & Logic Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT – Programming & Logic Essentials certification measures knowledge and skills in the basics of programming languages, including Boolean concepts, truth tables, logic, program structure, pseudo-code, iterative statements and syntax	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/programming-and-logic.php">http://www.ictcertified.com/ict-essentials/programming-and-logic.php</a>
PROSO805	ICT – Web Design Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT – Web Design Essentials certification measures knowledge and skills in the basics of designing and creating basic Web sites, including Web page elements, page layout, use of color, graphical user interface (GUI) tools, integration of multimedia, HTML coding, navigation and site publishing.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/webdesign.php">http://www.ictcertified.com/ict-essentials/webdesign.php</a>
PROSO806	ICT - Communications Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT Communications Essentials certification measures knowledge and skills in the fundamentals of basic network functions and Internet connections, Web search strategies, online safety and privacy, Web site content and email communication.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/communications.php">http://www.ictcertified.com/ict-essentials/communications.php</a>
PROSO807	ICT - Computing Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT Computing Essentials certification measures knowledge and skills in the fundamentals of computers and their functionality, including types and functions of computers and computer systems, computer hardware, applications, file management and the basics of computer networking.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/computing.php">http://www.ictcertified.com/ict-essentials/computing.php</a>
PROSO808	ICT - Cybersecurity Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT CyberSecurity Essentials measures knowledge and skills in the fundamentals of personal online security and safety, including cybersecurity, securing from threats to computer systems and other topics especially relevant to students.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/cybersecurity.php">http://www.ictcertified.com/ict-essentials/cybersecurity.php</a>
PROSO809	ICT - Spreadsheet Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT Spreadsheet Essentials certification measures knowledge and skills in the fundamentals of creating and using spreadsheets, including the purpose of spreadsheets; spreadsheet elements; how to insert, format, copy and move cell data, and format columns and rows; creating and modifying tables and charts; and functions and conditional formatting.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/spreadsheet.php">http://www.ictcertified.com/ict-essentials/spreadsheet.php</a>
PROSO810	ICT - Word Processing Essentials	Certification Partners	CAPE Digital Tool Certificate	The ICT Word Processing Essentials measures knowledge and skills in the fundamentals of using common word-processing application software, including the creation, editing and design of documents; the use of text structures; and collaboration on word-processing documents.	1 exam required	None	None	None	<a href="http://www.ictcertified.com/ict-essentials/word.php">http://www.ictcertified.com/ict-essentials/word.php</a>

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PROSO811	ICT - Fundamentals	Certification Partners	CAPE Digital Tool Certificate	ICT Fundamentals focuses on introductory digital tool literacy, and measures knowledge and skills in computing functions, networking types, Internet communication functions, Web browser and search engine functions, cloud applications, word processing, spreadsheets, Internet safety, ethical and legal issues, and security issues.	1 exam required; 30 questions; 45 minutes	None	None	None	<a href="http://www.ictcertified.com/ict-fundamentals/ict-fundamentals.php">http://www.ictcertified.com/ict-fundamentals/ict-fundamentals.php</a>
PROSO812	ICT Digital Citizenship and Ethics	Certification Partners	CAPE Digital Tool Certificate	The ICT Digital Citizenship and Ethics exam focuses on Internet technologies, Websites, Web languages, browsers and other online resources and tools. Candidates will also identify the purpose, uses and benefits of copyright, fair-use guidelines, global awareness of laws, security, privacy and cultural differences.	1 exam required; 30 questions; 45 minutes; Minimum passing score of 70%	None	None	None	<a href="http://www.ictcertified.com/ict-digital-citizenship-and-ethics/ict-digital-citizenship-and-ethics.php">http://www.ictcertified.com/ict-digital-citizenship-and-ethics/ict-digital-citizenship-and-ethics.php</a>
PTCBD001	Pharmacy Technician	Pharmacy Technician Certification Board	CAPE Industry Certification	The Pharmacy Technician certification measures knowledge and skills needed to assist pharmacists to prepare and dispense prescriptions.	1 exam required; 90 multiple choice questions; 110 minutes	Individuals must have a high school diploma or GED; no felony convictions; no drug or pharmacy related convictions, no restriction or admission of misconduct or violation of regulation by any State Board of Pharmacy.	None	None	<a href="http://www.ptcb.org">www.ptcb.org</a>
RECFN001	RECF Pre-Engineering Certification	Robotics Education and Competition Foundation	CAPE Industry Certification	The RECF Pre-Engineering Certification measures knowledge and skills in fundamentals of engineering and two of the following eight areas: aerospace pre-engineering, chemical pre-engineering, civil pre-engineering, computer science/programming, electrical pre-engineering, engineering technology, manufacturing technology, and mechanical pre-engineering.	A series of module-based exams; passing score of 80% or greater across all the modules and any modules with a score less than 70% must be retaken.	Individuals are expected to have at least 150 hours of pre-engineering classroom learning experience before taking the exam for this certification. Individuals must take the Fundamentals of Engineering plus a minimum of any two out of the eight engineering modules in order to receive the RECF Pre-Engineering Certification.	None	None	<a href="http://www.roboticseducation.org">www.roboticseducation.org</a>
RECFN002	RECF Robotics Certification	Robotics Education and Competition Foundation	CAPE Industry Certification	The RECF Robotics Certification measures knowledge and skills in fundamentals of engineering, computer science/programming, electrical pre-engineering, and mechanical pre-engineering.	A series of module-based exams; passing score of 80% or greater across all the modules and any modules with a score less than 70% must be retaken.	Individuals are expected to have at least 150 hours of robotics classroom learning experience before taking the exam for this certification. Individuals must take the Fundamentals of Engineering plus three engineering modules in order to receive the RECF Robotics Certification.	None	None	<a href="http://www.roboticseducation.org">www.roboticseducation.org</a>
SALES001	Salesforce Certified Administrator	Salesforce	CAPE Industry Certification	Salesforce Administrators work with stakeholders to define requirements, customize the platform, and enable users to get the most out of Salesforce, a customer relationship management (CRM) platform. This CRM platform allows users to automate business processes, create reports & dashboards and monitor customer relationships.	1 exam required; 60 questions; 65% must be answered correctly to pass	None	None	None	<a href="https://trailhead.salesforce.com/en/credentials/administrator/overview">https://trailhead.salesforce.com/en/credentials/administrator/overview</a>
SOCTE004	Broadband Premises Installer (BPI)	Society of Cable Telecommunications Engineers	CAPE Industry Certification	The Broadband Premises Installer certification measures knowledge and skills to install and troubleshoot telecommunications services (video, voice, and data) at the customer's premises. The successful certification candidate has the knowledge to carry out a basic "triple-play" installation but is not yet proficient.	1 exam required; 50 multiple choice questions; computer based; passing score of 76% or greater required	None	None	None	<a href="http://www.scte.org">www.scte.org</a>
SOLID003	Certified Solidworks Associate-Academic (CSWA-Academic)	Dassault Systems Solidworks Corporation	CAPE Industry Certification	The Certified Solidworks Associate-Academic (CSWA-Academic) certification measures a person's knowledge and competency with Solidworks mechanical design software.	1 exam required; 3 hours; passing score of 70% or greater required	None	None	None	<a href="http://www.solidworks.com/certification">www.solidworks.com/certification</a>
SOLID004	Certified Solidworks Professional - Academic (CSWP-Academic)	Dassault Systems Solidworks Corporation	CAPE Industry Certification	The Certified Solidworks Professional - Academic certification exam is delivered in three segments featuring hands-on challenges. Segment 1 tests competencies in creating a part from a drawing; using linked dimensions and equations to aid in modeling; using equations to relate dimensions; updating parameters and dimension sizes; mass property analysis; modifying geometry on initial part to create a more complex part; modifying parameters on the part at different stages while maintaining all other dimensions and design intent. Segment 2 tests creating configurations from other configurations; changing configurations; creation of configurations using a design table; mass properties; changing and/or rearranging features of an existing Solidworks part. Segment 3 tests creating an assembly; adding parts to an assembly; collision detection when moving a part in an assembly; interference detection; basic and advanced mates; rigid and flexible subassemblies; replacing a part with another part in an assembly; creating a coordinate system; and using a coordinate system to perform mass properties analysis.	3 Exam Segments required: 1: 70 min.; passing score of 75/105 2: 50 min.; passing score of 77/104 3: 80 min.; passing score of 77/109 Total exam length is 3 hours 20 min.	None	None	This certification is intended for a student with a minimum of 1 to 2 years of SOLIDWORKS experience and advanced knowledge of engineering practices.	<a href="http://www.solidworks.com">www.solidworks.com</a>
TAFPL001	Accredited Legal Professional (ALP)	NALS...the Association for Legal Professionals	CAPE Industry Certification	The Accredited Legal Professional (ALP) certification demonstrates an individual's preparedness for the field of law. This certification demonstrates ability to perform business communication tasks; gauges ability to maintain office records and calendars, and prioritize multiple tasks when given real-life scenarios; measures understanding of office equipment and related procedures; denotes aptitude for understanding legal terminology, legal complexities, and supporting documents; appraises knowledge of law office protocol as prescribed by ethical codes.	1 exam required; 4 hours	None	None	None	<a href="http://www.nals.org">www.nals.org</a>
TBOOM001	Toon Boom Certified Associate (Harmony Premium)	Toon Boom Animation	CAPE Industry Certification	The Toon Boom Certified Associate (Harmony) certification is a certification that validates entry-level skills for the production of high-quality animation. Harmony is the industry-standard tool for drawing, animating, working in a 3D space, creating camera moves, and doing special effects. This software has an advanced system for character rigging, with tools to create characters with body parts on separate layers.	1 exam required; 25 multiple choice questions; passing score of 80% or higher required	None	None	None	<a href="http://www.toonboom.com/education/certification">www.toonboom.com/education/certification</a>
TBOOM003	Toon Boom Certified Associate (Storyboard Pro)	Toon Boom Animation	CAPE Industry Certification	The Toon Boom Certified Associate (Storyboard Pro) certification is a certification that validates entry-level skills needed to plan, lay out, and time productions. Storyboard Pro can be used to plan live action video shoots, animated productions, films, games, presentations, events, and more. It enables users to draw, plan sequences of panels, import media from a wide range of sources, and time projects out. Projects can then be exported in a wide array of industry standard formats.	1 exam required; 25 multiple choice questions; passing score of 80% or higher required	None	None	None	<a href="http://www.toonboom.com/education/certification">www.toonboom.com/education/certification</a>
TBOOM004	Toon Boom Certified Associate (Harmony Advanced)	Toon Boom Animation	CAPE Industry Certification	The Toon Boom Certified Associate (Harmony Advanced) certification measures knowledge in animation, keyframe animation, traditional animation, cut-out animation, coloring, character design, background design and drawing tools.	1 exam; 35 questions; 24 of 35 required to pass	None	None	None	<a href="https://www.toonboom.com/education/certification">https://www.toonboom.com/education/certification</a>
UNITY001	Unity Certified Associate	Unity Technologies	CAPE Industry Certification	The Unity Certified Associate exam tests competencies in animation, asset management, audio, editor interface, employment preparedness, game art principles, game design principles, industry awareness, lighting, materials and effects, navigation and pathfinding, physics, programming, project management, and user interface.	1 exam required; 100 questions over 16 topic areas; 90 minutes	None	None	None	<a href="https://certification.unity.com/products/certified-associate">https://certification.unity.com/products/certified-associate</a>
UNITY002	Unity Certified User: Programmer	Unity Technologies	CAPE Industry Certification	The Unity Certified User certification focuses on C# programming with Unity technology. It covers the basics to create interactivity in games, apps, AR/VR, and other experiences. Individuals will be expected to have at least 150 hours of Unity software use and training to obtain the certification.	1 exam required; 40 questions; 50 minutes	None	None	None	<a href="http://unity.com">unity.com</a>
UNITY003	Unity Certified User: Artist	Unity Technologies	CAPE Industry Certification	The Unity Certified User: Artist certification allows candidates to demonstrate their ability to work in the rigorous game art pipeline that exists in the game industry. Candidates will be tested on their knowledge of the art workflow within the industry-standard Unity game engine. Competencies tested include importing and working with 2D and 3D assets, placing and designing levels, and using Unity tools to assist in experience creation.	1 exam required; 40 questions; 50 minutes	None	None	None	<a href="http://certiport.com/unity">certiport.com/unity</a>
UNITY004	Unity Certified User: VR Developer	Unity Technologies	CAPE Industry Certification	The Unity Certified User: VR Developer certification exam tests the candidate's ability to create virtual reality experiences and programs within Unity software. Competencies tested include setup, interaction and optimization of virtual reality experiences in Unity software.	1 exam required; 20 questions; 30 minutes	Candidates must have previously earned the Unity Certified User: Programmer Certification.	None	None	<a href="http://certiport.com/unity">certiport.com/unity</a>
USINS001	Small UAS (sUAS) Safety Certification: Level 1	Unmanned Safety Institute	CAPE Industry Certification	The Small UAS (sUAS) Safety Certification: Level 1 measures knowledge and skills in understanding UAS systems, responsible operators, operations planning, human factors and CRM, identifying hazards, aeronautical decision making, and dealing with emergencies.	1 exam required; 80 percent or higher is required to pass.	Small UAS Ground School course must be completed prior to taking exam.	None	None	<a href="https://www.unmannedsafetyinstitute.org/safety-certifications">https://www.unmannedsafetyinstitute.org/safety-certifications</a>

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USINS002	Visual Line of Sight System Operator (VSO) Ground	Unmanned Safety Institute	CAPE Industry Certification	The Visual Line of Sight System Operator (VSO) Ground certification measures knowledge, skills and aeronautical experience necessary to meet the requirements for the FAA Unmanned Aircraft System Operator Certificate. Preparation for the certification includes an online training phase and an in-person flight training phase.	1 exam required, 75 questions; 80 percent or higher is required to pass.	Online training phase and an in-person flight training phase must be completed prior to taking exam.	None	None	<a href="https://www.unmannedsafetyinstitute.org/safety-certifications">https://www.unmannedsafetyinstitute.org/safety-certifications</a>

DISCLAIMERS: 1) Waivers of work experience requirements for industry certifications approved under s.1008.44(3), F.S., are not noted in the work experience requirements. Please refer to the CAPE Industry Certification Funding List (non-detailed) for waiver of work experience requirements.