

2009-2010

Workforce Florida, Inc. Comprehensive Industry Certification List for the Career and Professional Education Act

No	Certification/ Credential Title	DOE Code	Certification Description	Certification Requirements	Issuing Organization/Provider
1	Accredited Business Accountant/Accredited Business Advisor (ABA)	ACFAT001	The Accreditation Council for Accountancy & Taxation (ACAT) seeks to ensure that all accredited individuals possess both the theoretical knowledge and the practical knowledge necessary to be successful practitioners. For that reason, candidates for accreditation must satisfy an experience requirement before becoming fully credentialed: three years of related work experience, up to two of which may be satisfied through college credit. Those who pass the exam but who have not met the experience requirement may market themselves as having passed the ACAT Comprehensive Examination for Accreditation in Accountancy, but are not entitled to use the ABA designation.	The seven-hour Comprehensive Examination for Accreditation in Accounting consists of 200 multiple-choice questions which test an individual's proficiency in financial accounting, reporting, statement preparation, taxation, business consulting services, business law, and ethics. Required for all: three years experience: Related work experience includes verifiable experience in accounting, taxation, financial services, or other field requiring a practical and theoretical knowledge of the subject matter covered on the ACAT Comprehensive Examination. Those who pass the exam but who have not met the experience requirement may market themselves as having passed the ACAT Comprehensive Examination for Accreditation in Accountancy, but are not entitled to use the ABA designation.	Accreditation Council for Accountancy & Taxation www.acatcredentials.org
2	Accredited Rural Appraiser (ARA)	ASFMA001	An ARA is a highly trained professional who demonstrates comprehensive skills and knowledge of agriculturally based property; possesses education and experience in establishing value of agricultural and rural properties; adheres to the requirements of the Uniform Standards of Professional Appraisal Practice (US PAP); and understands highly improved and complex properties.	Five years rural appraisal experience; a four-year college degree, or equivalent; and complete the ARA Application for the final accrediting exam. Complete and pass the following appraisal courses (replacements shown below each course): Fundamentals of Rural Appraisal (A-10) ASFMRA Ethics (A-12 Part I) Standards of Professional Appraisal Practice (A-12 Part II) Report Writing School (A-15) Principles of Rural Appraisal (A-20) Eminent Domain (A-25) Income Capitalization Part I (A-27) Highest & Best Use (A-29) Advanced Rural Appraisal (A-30)	American Society of Farm Managers and Rural Appraisers www.asfmra.org
3	ADDA Drafter Certification	AMDDA001	An international program that allows drafters to indicate their knowledge in drafting concepts and internationally recognized standards and practices. American Design Drafting Association (ADDA) developed the examination to elevate an individual's comprehension of the professional standards related to design drafting. Certification enables drafters to demonstrate professional capabilities and helps employers in identifying quality employees. The test does not cover software specific to computer aided drafting or design (CADD).	The certification is available to all individuals regardless of experience or formal education. Individuals must pass an exam that covers drafting concepts as well as nationally recognized standards and practices; the exam is 90 minutes and a 75 percent is required to pass.	American Design Drafting Association www.adda.org
4	Adobe Certified Associate (Dreamweaver)	ADOBE010	This certification is a credential that validates entry-level skills needed to plan, design, build, and maintain effective communications by using different forms of digital media. Dreamweaver is the industry leading web development tool, enabling users to efficiently design, develop and maintain standards-based web sites and applications.	The associate-level certification exam will correspond to a particular Adobe application -Web Communication using Adobe Dreamweaver CS3. The following are requirements of the exam: Set project requirements; Plan site design and page layout; Understand the Adobe Dreamweaver CS3 interface; Add content; Organize and modify content; and Evaluate and maintain a site.	Adobe Systems www.adobe.com

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5	Adobe Certified Associate (Flash)	ADOBE011	This certification is a credential that validates entry-level skills needed to plan, design, build, and maintain effective communications by using different forms of digital media. Flash enables users to integrate animation, video, text, audio and graphics into engaging user experiences that span a wide variety of digital devices, from desktops to mobile phones.	The associate-level certification exam will correspond to a particular Adobe application - Rich Media Communication using Adobe Flash CS3. The following are requirements of the exam: Set project requirements; Identify rich-media design elements; Understand Adobe Flash CS3; Build rich-media elements; and Evaluate rich-media elements.	Adobe Systems www.adobe.com
6	Adobe Certified Associate (Photoshop)	ADOBE012	This certification is a credential that validates entry-level skills needed to plan, design, build, and maintain effective communications by using different forms of digital media. Photoshop enables users to animate video frames, paint and clone over multiple video frames, and import and export video files in a wide range of formats, engaging user experiences that create more accurate composites.	The associate-level certification exam will correspond to a particular Adobe application - Visual Communication using Adobe Photoshop CS3 Extended. The following are requirements of the exam: Setting project requirements; Identifying design elements when preparing images; Understanding Adobe Photoshop CS3 Extended; Manipulating images; and Evaluating digital images.	Adobe Systems www.adobe.com
7	Adobe Certified Expert (Adobe Acrobat)	ADOBE013	As a Certified Adobe Expert (Specialist), this certification recognizes an individual's knowledge in the Adobe Acrobat product- Creating PDF documents, Managing Document Security, Configuring PDF Settings, Creating Forms and Collecting Data, etc.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com
8	Adobe Certified Expert (Adobe After Effects)	ADOBE002	As a Certified Adobe Expert (Specialist), this certification recognizes an individual's knowledge in the After Effects Adobe product- Using and Configuring Workspaces; Building 2d Compositions; Animating and Keyframing layers; Creating and Animating Text; Working with Color Management, etc.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com
9	Adobe Certified Expert (Adobe Go Live)	ADOBE014	As a Certified Adobe Expert (Specialist), this certification recognizes an individual's knowledge in the Adobe Go Live (Dreamweaver) software- which now includes Spry framework for Ajax; Spry data; Spry widgets; Spry effects; Adobe Photoshop and Fireworks integration; Browser Compatibility Check; CSS Advisor website; CSS layouts; and CSS management.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com
10	Adobe Certified Expert (Illustrator CS 2)	ADOBE003	Document layout, shapes and objects, working with type, managing color, Adobe bridge assets, outputting to print, saving and exporting, and publishing for the web.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com
11	Adobe Certified Expert (InDesign)	ADOBE004	Document layout, text, drawing, working with color and transparency, importing, exporting and converting files, cross media support, and tables.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com
12	Adobe Certified Expert (Photoshop CS 2)	ADOBE005	Photoshop UI, painting and retouching, creating and using layers, supporting video; working with vector tools, automation, and filters; using camera RAW; managing color, and preparing images for the web.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com

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13	Adobe Certified Expert (Adobe Premiere Pro)	ADOBE007	As a Certified Adobe Expert (Specialist), this certification recognizes an individual's knowledge in the Adobe Premiere Pro product- Setting up Projects; Capturing Media; Editing; Working with Audio; Creating DVDs, etc.	Computer delivered, closed book 60-90 minute test; one to two hours to complete.	Adobe Systems www.adobe.com
14	Adobe Certified Professional: Macromedia Dreamweaver MX Developer	ADOBE008	The Dreamweaver MX Developer certification represents a professional level of expertise in the activities that demonstrate an individual's competency as a Dreamweaver developer. A certified individual is trained to thoroughly understand the Dreamweaver application, web page design, web page authoring, and supporting technologies.	To qualify as an ACP Macromedia Dreamweaver MX 2004 Developer, candidates must pass the certification exam that consists of 60-90 multiple-choice questions. The exam is computer-delivered, closed-book tests and take one to two hours to complete.	Adobe Systems www.adobe.com
15	Adobe Certified Professionals: Macromedia Flash MX Developer	ADOBE009	The Macromedia Flash MX 2004 Developer certification is based upon the most critical job activities a Flash Developer performs. The skills and knowledge certified by this examination represent a professional level of expertise.	The Certified Macromedia Flash MX Developer Exam consists of 65 challenging multiple choice and true/false questions; 70 minutes. These training courses will assist in exam preparation: Flash MX 2004: Application Development; Flash MX 2004: Advanced Application Development; and Flash MX 2004: Advanced Application Development for Programmers.	Adobe Systems www.adobe.com
16	Aerospace Technician	SPACE001	The purpose of a national Aerospace Technician Certification is to formalize the core competences and associated proficiency levels required for successful entry level employment of aerospace technicians who manufacture, assemble, service, test, operate, maintain, or repair systems associated with expendable and reusable space launch vehicles, payloads, related laboratories, and ground support equipment.	An individual must meet at least one of the following verifiable criteria to sit for the exam: have a two year technical college program degree; have/had a two year technical military assignment; hold a FAA Airframe/Powerplant certificate; or have two or more years of on the job training and experience in the Aerospace industry. The Core exam includes a written portion that is 70 questions, on six topics: Introduction to Aerospace, Applied Mechanics, Basic Electricity, Test & Measurements, Materials and Processes and Aerospace Safety. The exam includes a 16 hour Readiness Course and the three part exam (Written, Oral and Practical). The American Council on Education has recommended that colleges and universities grant up to 24 credits, in specific areas, toward a technical degree, for successfully passing the three part exam.	National Aerospace Technical Education Center (SpaceTEC) www.spacetec.org
17	Aircraft Electronics Technician (AET)	NCATT001	An Avionics Technician deals with the 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. The technician must also be organized in record keeping as each are required to note on forms what is wrong and the particulars about how it was repaired.	The NCATT AET certification examination and certification are open to all technicians regardless of career field, training, education or experience. Technicians testing for this certification must be able to demonstrate competency in 29 areas, some of which include: basic circuit calculations, theory of operation, power supply circuits, frequency sensitive filters, digital numbering systems, hazard/safety practices, corrosion control, etc. The minimum passing grade for the NCATT AET Certification examination is 70 percent.	National Center for Aircraft Technician Training (NCATT) www.ncatt.org

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18	Air Conditioning Service Technician	NATEX001	This NATE certification is a test of relevant applied knowledge of Air Conditioning service.	To earn NATE certification, a technician must pass both a CORE and a Specialty Air Conditioning Installation test with a grade of 70% or higher on each. There are 50 questions on CORE tests and 100 on the Specialty test. The core test covers basic math, customer relations, and fundamentals of electricity, heat transfer and comfort. The specialty test cover system components, applied knowledge, diagnostics, troubleshooting, and service and installation topics.	North American Technician Excellence www.natex.org/certification.htm
19	Air Conditioning Installation Specialization	NATEX002	This NATE certification is a test of relevant applied knowledge of Air Conditioning Installation.	To earn NATE certification, a technician must pass both a CORE and a Specialty Air Conditioning Installation test with a grade of 70% or higher on each. There are 50 questions on CORE tests and 100 on the Specialty test. The core test covers basic math, customer relations, and fundamentals of electricity, heat transfer and comfort. The specialty test cover system components, applied knowledge, diagnostics, troubleshooting, and service and installation topics.	North American Technician Excellence www.natex.org/certification.htm
20	Alarm Certified Technician (Fire Alarm/Advanced)	NBFAA001	The National Training School (NTS), founded by the National Burglar & Fire Alarm Association (NBFAA) in 1985, was established to meet the ever-increasing need for standardized training in the electronic life safety, security and systems industry. Offering more diverse training than any other association, NTS offers students the choice of traditional classroom and more than 2,500 online training courses. NTS's education and certification programs for security and fire alarm technicians assure competence in those who sell, monitor, install and service electronic systems.	Certified Alarm Technician (Level One) - to earn this certification, an individual must: <ul style="list-style-type: none"> · successfully complete the three day Certified Alarm Technician course and pass the two-hour, multiple choice examination. Certified Fire Alarm Technician - to earn this certification, an individual must: <ul style="list-style-type: none"> · successfully complete the two-day Fire Alarm Installation Methods course and pass the two-hour, multiple-choice examination; and · successfully complete the one-day Life Safety Code course and pass the one-hour, multiple-choice examination. Advanced Alarm Technician - to earn this certification, an individual must: <ul style="list-style-type: none"> · hold the Level 1 certification · successfully complete the two-day Advanced Burglar Alarm Technician course and pass the two-hour, multiple-choice examination; and · successfully complete the two-day Fire Alarm Installation Methods course and pass the two-hour, multiple-choice examination. 	National Burglar & Fire Alarm Association www.alarm.org
21	Anesthesia Technician	ASATT001	This certification promotes anesthesia technicians through the certification of qualified technicians by: (1) formally recognizing individuals who meet the requirements and pass the certification examination; (2) encouraging continued personal and professional growth in the field; and (3) providing a national standard of requisite knowledge required for certification to assist employers, the public and members of the health professions in the assessment of anesthesia technicians.	To be eligible, technician candidates must have a high school diploma or its equivalent (GED) and a minimum of two (2) years of full-time day shift work experience or twenty-four (24) hours a week as an anesthesia technician in a healthcare setting or with a provider of services to the healthcare industry, with the job duties dedicated to the anesthesia department. The certification examination is 3 hours, 100 multiple choice questions covering operating room environment and anesthesia specific topics.	American Society of Anesthesia Technologists & Technicians. www.asatt.org/pdf/CerATbooklet.pdf
22	Apple Certified Desktop Technician (ACDT)	APPLE004	Apple Certified Macintosh Technician certification verifies the ability to perform basic troubleshooting and repair of both desktop and portable Macintosh systems, such as iMac MacBook Pro. ACMT certification exams emphasize identifying and resolving common OS X problems, and using Apple Service and Support products and practices to effectively repair Apple hardware.	Candidates for ACMT certification are required to pass the hardware exam plus a current Mac OS X troubleshooting exam.	Apple Computer , Inc. www.apple.com/training

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23	Apple Certified Help Desk Specialist (ACHDS)	APPLE005	The Apple Certified Help Desk Specialist (ACHDS) 10.4 certification verifies an understanding of Mac OS X core functionality and an ability to configure key services, perform basic troubleshooting, and assist end users with essential Mac OS X capabilities. This certification addresses the technical skills needed by a Mac OS X specialist who works at a help desk or otherwise assists Mac OS X users with technical issues. The required exam is based on Mac OS X v10.4.	Required Exam: Mac OS X Support Essentials v10.4 Exam.	Apple Computer , Inc. www.apple.com/training
24	Apple Certified Portable Technician (ACPT)	APPLE006	Apple Certified Macintosh Technician certification verifies the ability to perform basic troubleshooting and repair of both desktop and portable Macintosh systems, such as iMac MacBook Pro. ACMT certification exams emphasize identifying and resolving common OS X problems, and using Apple Service and Support products and practices to effectively repair Apple hardware.	Candidates for ACMT certification are required to pass the hardware exam plus a current Mac OS X troubleshooting exam.	Apple Computer , Inc. www.apple.com/training
25	Apple Certified Pro (ACP) Aperture	APPLE007	This two-day course certification introduces students to the basics of image management and Aperture's powerful photo-editing, image-retouching, proofing, and publishing features; then takes a student step by step through Aperture's powerful photo-editing, image-retouching, proofing, publishing, and archiving features.	Students should have the following prerequisite knowledge prior to attending this two day course: Basic knowledge of Mac OS X; and knowledge of basic photography terminology. A final Apple exam is required.	Apple Computer , Inc. www.apple.com/training
26	Apple Certified Pro (ACP) Color	APPLE014	Course covers the knowledge necessary to become an Apple Certified Pro, Level One in Color. This three-day hands-on course will familiarize students with Apple's masterful new color grading and finishing software.	Students should have the following prerequisite knowledge prior to attending the course: basic knowledge of Mac OS X and Final Cut Pro 6 is required. Level One Final Cut Pro End User certification is preferred. Level One certification is granted upon successful completion of the Color, Level One exam.	Apple Computer , Inc. www.apple.com/training
27	Apple Certified Pro (ACP) DVD Studio Pro	APPLE008	In this three-day hands-on course students will learn everything they need to create a professional DVD title. This course guides students through every aspect of DVD authoring, from initial storyboarding to burning and replication.	Students should have the following prerequisite knowledge prior to attending this three day course: Basic knowledge of the Macintosh OS. A final Apple exam is required.	Apple Computer , Inc. www.apple.com/training
28	Apple Certified Pro (ACP) Final Cut Pro	APPLE009	This three-day hands-on course introduces students to the primary feature set and basic interface of Final Cut Pro. Certification knowledge areas include basic setup, adjusting and customizing preferences and settings, capturing video and audio, various editing and trimming techniques, ripple, roll, slip and slide tools, audio editing and audio creation, finishing and final output.	Students should have the following prerequisite knowledge prior to attending the course: Basic knowledge of the Macintosh OS; and basic knowledge of editing terminology is recommended. A final Apple exam is required. There is a Level Two advanced course certification offered in Final Cut Pro.	Apple Computer , Inc. www.apple.com/training

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29	Apple Certified Pro (ACP) Logic Pro	APPLE010	This three-day hands-on course enables students learn how to generate a customized audio and midi configuration that will seamlessly integrate with their own personal production studio. Students also create their own song using Logic Pro's comprehensive array of software instruments, Apple Loops and DSP effects. In-depth lessons will cover MIDI and audio recording, streamlined editing and arrangement techniques, user defined key commands, automation, scoring to picture and surround mixing.	Students should have the following prerequisite knowledge prior to attending the course: Basic knowledge of the Macintosh OS. A final Apple exam is required. There is a Level Two advanced course certification offered in Logic Pro.	Apple Computer , Inc. www.apple.com/training
30	Apple Certified Pro (ACP) Motion	APPLE011	This three-day hands-on course covers working with Motion's Real-Time Design engine and interface, behavior-based animation, parameter behaviors, blend modes, advanced particle system design, advanced title animation, working with templates, chroma key techniques, masking methods, DVD motion menu design, tablet-driven gesture UI techniques, working with audio, keyframing, and integration.	Students should have the following prerequisite knowledge prior to attending this three day course: Basic knowledge of the Macintosh OS. A final Apple exam is required.	Apple Computer , Inc. www.apple.com/training
31	Apple Certified Pro (ACP) Soundtrack Pro	APPLE012	This two-day course guides students through using Soundtrack Pro to edit audio files, repair field recordings, perform multitrack arranging and mixing, synchronize audio and video, analyze and fix common audio problems, and perform other creative sound design techniques. The course focuses on practical, professional techniques used to add professional music and sound effects to video and multimedia projects.	Students should have the following prerequisite knowledge prior to attending this three day course: Basic knowledge of the Macintosh OS. A final Apple exam is required.	Apple Computer , Inc. www.apple.com/training
32	Apple Certified System Administrator (ACSA)	APPLE013	Apple Certified System Administrator (ACSA) certification verifies an in-depth knowledge of Apple technical architecture and an ability to install and configure machines; architect and maintain networks; enable, customize, tune, and troubleshoot a wide range of services; and integrate Mac OS X, Mac OS X Server, and other Apple technologies within a multi-platform networked environment. The ACSA certification is intended for full-time professional system administrators and engineers who manage medium-to-large networks of systems in complex multiplatform deployments.	ACSA 10.4 certification is granted when the candidate achieves a total of 7 credits by passing a combination of exams- (there is the list of (8) exams that are eligible toward ACSA 10.4 certification).	Apple Computer , Inc. www.apple.com/training
33	Apple Certified Technical Coordinator (ACTC)	APPLE002	Apple Certified Technical Coordinator (ACTC) certification verifies a foundation in Mac OS X and Mac OS X Server core functionality and an ability to configure key services and perform basic troubleshooting of the essential Mac OS X and Mac OS X Server capabilities.	Required Exams: Mac OS X Support Essentials v10.5 Exam and Mac OS X Server Essentials v10.5 Exam.	Apple Computer , Inc. www.apple.com/training
34	Applied Management Certified Professional	LTINT001	This program is valuable for experienced project managers who are responsible for managing large, complex projects and who want to effectively manage project risks and elevate the quality in their projects.	Three Core Courses: Managing Complex Projects: Achieving Organizational Goals (Course 287 - four days); Project Risk Management: Hands-on (Course 286 - four days); Project Quality Management for Project Managers (Course 349 - three days); 1 Elective Course and associated exams.	Learning Tree International www.learningtree.com

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35	ASE Automobile Technician: Automatic Transmission/Transaxle	NIASE005	Successfully passing test A2 will certify an individual in Automatic Transmission/ Transaxle.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
36	ASE Automobile Technician: Brakes	NIASE007	Successfully passing Test A5 will certify an individual in automobile brakes.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
37	ASE Automobile Technician: Electrical/Electronic Systems	NIASE008	Successfully passing test A6 will certify an individual in electrical/electronic systems.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
38	ASE Automobile Technician: Engine Performance	NIASE009	Successfully passing test A8 will certify an individual in engine performance.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
39	ASE Automobile Technician: Engine Repair	NIASE010	Successfully passing test A1 will certify an individual in Engine Repair.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
40	ASE Automobile Technician: Heating and Air Conditioning	NIASE011	Successfully passing test A7 will certify an individual in heating and air conditioning.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org

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41	ASE Automobile Technician: Manual Drive Train and Axles	NIASE012	Successfully passing test A3 will certify an individual in manual drive train and axles.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
42	ASE Automobile Technician: Service Consultant	NIASE013	The Automobile Service Consultant Test contains questions on communications, customer and internal relations, vehicle systems knowledge, sales skills, and shop operations.	To become ASE certified, service consultants must pass the Service Consultant exam and show proof of two years of on-the-job work experience as a service consultant. The scored portion of the test consists of 60 multiple-choice questions that address various content areas.	National Institute for Automotive Service Excellence www.asecert.org
43	ASE Automobile Technician: Suspension and Steering	NIASE014	Successfully passing Test A4 will certify an individual in automobile suspension and steering.	To become ASE certified, technicians must pass one or more of the Automobile exams and present proof of at least two years of relevant work experience. Those who pass all eight exams are recognized as ASE-certified Master Automobile Technicians. Technicians may substitute two years of relevant formal training for up to one year of the work experience requirement.	National Institute for Automotive Service Excellence www.asecert.org
44	ASE Collision Repair and Refinishing Technician: Electrical/ Mechanical Components (B5)	NIASE017	This certification recognizes those collision repair technicians and refinishers who possess knowledge/ skills in the following: Suspension and steering; Electrical; Brakes; Heating and Air Conditioning; Engine Cooling Systems; Drive Train; Fuel, Intake, and Exhaust systems; and Restraint systems.	Successfully passing test B5 will certify an individual in Electrical/ Mechanical Components. To become ASE certified, technicians must pass one or more of the Collision Repair exams and present proof of two years of relevant work experience. Those who pass the three collision repair tests plus the painting and refinishing test become ASE certified Master Collision Repair/Refinishing technicians.	National Institute for Automotive Service Excellence www.asecert.org
45	ASE Collision Repair and Refinishing Technician: Non-structural Analysis and Damage Repair (B3)	NIASE018	This certification recognizes those collision repair technicians and refinishers who possess knowledge of the skills necessary to properly analyze and repair automotive collision damage and correct paint finish damage.	Successfully passing test B3 will certify an individual in collision repair and refinish: non-structural analysis and damage repair. To become ASE certified, technicians must pass one or more of the Collision Repair exams and present proof of two years of relevant work experience. Those who pass the three collision repair tests plus the painting and refinishing test become ASE certified Master Collision Repair/Refinishing technicians.	National Institute for Automotive Service Excellence www.asecert.org
46	ASE Collision Repair and Refinishing Technician: Painting and Refinishing (B2)	NIASE029	This certification recognizes those collision repair technicians and refinishers who possess knowledge/ skills in the following: Surface preparation; Spray gun operation and related equipment; Paint mixing, matching, and applying; Solving paint application problems; Finish defects, causes, and cures; and Safety precautions.	Successfully passing test B2 will certify an individual in Painting and Refinishing. To become ASE certified, technicians must pass one or more of the Collision Repair exams and present proof of two years of relevant work experience. Those who pass the three collision repair tests plus the painting and refinishing test become ASE certified Master Collision Repair/Refinishing technicians.	National Institute for Automotive Service Excellence www.asecert.org

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47	ASE Collision Repair and Refinishing Technician: Structural Analysis and Damage Repair (B4)	NIASE032	This certification recognizes those collision repair technicians and refinishers who possess knowledge/ skills in the following: Frame Inspection and repair; Unibody inspection, measurement and repair; Stationary glass; and Metal welding and cutting.	Successfully passing test B4 will certify an individual in Structural Analysis and Damage Repair. To become ASE certified, technicians must pass one or more of the Collision Repair exams and present proof of two years of relevant work experience. Those who pass the three collision repair tests plus the painting and refinishing test become ASE certified Master Collision Repair/Refinishing technicians.	National Institute for Automotive Service Excellence www.asecert.org
48	ASE Master Automobile Technician	NIASE002	To identify and recognize those automobile and light truck technicians who can demonstrate knowledge of the skills necessary to diagnose, service, and repair cars, SUV's and light duty trucks.	The ASE Automobile/Light Truck Test Series includes eight certification exams: Engine Repair, Automatic Transmission/Transaxle, Manual Drive Train and Axles, Suspension and Steering, Brakes, Electrical/Electronic Systems, Heating and Air Conditioning, and Engine Performance.	National Institute for Automotive Service Excellence www.asecert.org
49	ASE Master Collision Repair and Refinishing Technician	NIASE035	Master certification of Collision Repair and Refinishing Technicians who possess knowledge of the skills necessary to properly analyze and repair automotive collision damage and correct paint finish damage.	Individuals must pass the three collision repair tests plus the painting and refinishing test become ASE-certified Master Collision Repair/Refinishing technicians: Nonstructural Analysis and Damage Repair exam; Structural Analysis and Damage Repair exam; Electrical/ Mechanical Components exam; and Painting and Refinishing.	National Institute for Automotive Service Excellence www.asecert.org
50	ASE Master Medium/Heavy Truck Technician	NIASE003	The ASE Medium/Heavy Truck Test Series includes eight certification exams: Gasoline Engines, Diesel Engines, Drive Train, Brakes, Suspension and Steering, Electrical/ Electronic Systems, Heating, Ventilation, and Air Conditioning (HVAC), and Preventive Maintenance Inspection (PMI).	To become ASE certified, technicians must pass one or more of the Medium/Heavy Truck exams and present proof of at least two years of relevant work experience. Those who pass the Diesel Engines, Drive Train, Brakes, Suspension and Steering, Electrical/ Electronic Systems and HVAC tests, become ASE-certified Master Medium/Heavy Truck Technicians.	National Institute for Automotive Service Excellence www.asecert.org
51	ASE Medium/Heavy Truck Technician: Brakes (T4)	NIASE016	Air Brakes Diagnosis and Repair; Hydraulic Brakes Diagnosis and Repair; Air and Hydraulic Antilock Brake Systems; and Wheel Bearings Diagnosis and Repair.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org
52	ASE Medium/Heavy Truck Technician: Diesel Engines (T2)	NIASE020	General Engine Diagnosis; Cylinder Head and Valve Train Diagnosis and Repair; Engine Block Diagnosis and Repair; Lubrication and Cooling Systems Diagnosis and Repair; Air Induction and Exhaust Systems Diagnosis and Repair; Fuel System Diagnosis and Repair; Starting and Charging System Diagnosis and Repair; and Engine Brakes.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org
53	ASE Medium/Heavy Truck Technician: Drive Train (T3)	NIASE021	Clutch Diagnosis and Repair; Transmission Diagnosis and Repair; Driveshaft and Universal Joint Diagnosis and Repair; and Drive Axle Diagnosis and Repair.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org

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54	ASE Medium/Heavy Truck Technician: Electrical/ Electronic Systems (T6)	NIASE023	General Electrical Diagnosis; Battery Diagnosis and Repair; Starting System Diagnosis and Repair; Charging System Diagnosis and Repair; Lighting Systems Diagnosis and Repair; Gauges and Warning Devices Diagnosis and Repair; and Related Systems.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org
55	ASE Medium/Heavy Truck Technician: Gasoline Engines (T1)	NIASE025	General Engine Diagnosis; Cylinder Head and Valve Train Diagnosis and Repair; Engine Block Diagnosis and Repair; Lubrication and Cooling Systems Diagnosis and Repair; Ignition System Diagnosis and Repair; Fuel and Exhaust Systems Diagnosis and Repair; Battery, Starting and Charging Systems Diagnosis and Repair; Emissions Control System Diagnosis and Repair; and Computerized Engine Controls Diagnosis and Repair.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org
56	ASE Medium/Heavy Truck Technician: Heating, Ventilation, and A/C (HVAC) (T7)	NIASE026	HVAC Systems Diagnosis, Service, and Repair; A/C System and Component Diagnosis, Service, and Repair; Heating and Engine Cooling Systems Diagnosis, Service, and Repair; Operating Systems and Related Controls Diagnosis and Repair; and Refrigerant Recovery, Recycling, Handling, and Retrofit.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org
57	ASE Medium/Heavy Truck Technician: Preventive Maintenance Inspection (PMI) (T8)	NIASE031	Engine Systems; Cab and Hood; Electrical/Electronics; Frame and Chassis; and Road/Operational Test.	To become ASE certified, technicians must pass one or more of the Medium/Heavy Truck exams and present proof of at least two years of relevant work experience.	National Institute for Automotive Service Excellence www.asecert.org
58	ASE Medium/Heavy Truck Technician: Suspension and Steering (T5)	NIASE033	Steering System Diagnosis and Repair; Suspension System Diagnosis and Repair; Wheel Alignment Diagnosis, Adjustment, and Repair; Wheels and Tires Diagnosis and Repair; and Frame Service and Repair.	Each certification test is made up of between forty and sixty-five multiple choice questions. The testing sessions are 4 hours and 15 minutes. The types of knowledge and skills needed to pass the tests are as follows: Basic technical knowledge; Service or repair knowledge and skill; and Testing and diagnostic knowledge and skill.	National Institute for Automotive Service Excellence www.asecert.org
59	ASE School Bus Technician	NIASE004	The ASE School Bus Technician Test Series includes seven certification exams: Body Systems and Special Equipment, Diesel Engines, Drive Train, Brakes, Suspension and Steering, Electrical/Electronic Systems, and Air Conditioning Systems and Controls. While several of these tests parallel existing ASE Medium/Heavy Truck tests, each one is designed to test knowledge of systems that are specific to school buses.	To become ASE certified, technicians must pass one or more of the School Bus exams and present proof of two years of relevant hands-on work experience. Those who pass the Body Systems, Diesel Engines, Drive Train, Brakes, Suspension & Steering, and Electrical/Electronic Systems tests are recognized as ASE-certified Master School Bus technicians.	National Institute for Automotive Service Excellence www.asecert.org
60	Associate in Claims (AIC)	INSIA001	Claim professionals handle a wide variety of claims, including property, auto, workers compensation, and bodily injury claims. Earning the AIC designation can improve technical claim handling abilities as well as communication and negotiation skills. The AIC program was developed with the technical and financial assistance of the National Association of Independent Insurance Adjusters. Many companies use it as an official part of their claims training programs.	Individuals must choose one of five paths to earn the AIC designation; Choose a course: recommended- AIC 33—Claim Handling Principles and Practices: Activities in the claim process, basic investigation, fraud detection, good faith claim handling, ethics, negotiation skills and litigation management. AIC 33/34/35/36, INS 22: Eighty-five computer-administered, objective (multiple-choice) questions. Time allotted: two hours. CPCU 551, 552, 555: Computer-administered essay. Time allotted: three hours. CPCU553: Computer-administered objective. Time allotted: three hours.	Insurance Institute of America www.aicpu.org

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61	Associate in Commercial Underwriting (AU)	INSIA002	As a commercial lines underwriter, one must not only understand their own business, but the business of those whose accounts are written. The AU designation program will complement the underwriting skills that are learned on the job. One will also learn about helpful information resources and options available to commercial underwriters.	An individual may earn the AU designation by taking the AU 65 course-Commercial Underwriting: Principles and Property; AU 66-Commercial Underwriting: Liability and Advanced Techniques, and INS 23 - Commercial Insurance. The test is eighty-five computer-administered, objective (multiple-choice) questions. Time allotted: two hours.	Insurance Institute of America www.aicpu.org
62	Associate in Insurance Accounting and Finance (AIAF)	INSIA003	Will gain an understanding of practices, principles, and procedures used to prepare insurer financial statements to comply with the requirements of the NAIC and other regulatory bodies. This understanding benefits not only those who prepare these statements, but also those who use information contained in these statements for management or assessment of insurer performance.	Required Courses: AIAF 111—Statutory Accounting for Property and Liability Insurers; AIAF 112—Insurance Information Systems. CPCU 520—Insurance Operations, Regulation, and Statutory Accounting; CPCU 540—Finance for Risk Management and Insurance Professionals AIAF 111/112: Eighty-five computer-administered, objective (multiple-choice) questions. Time allotted: two hours. CPCU 520 and 540: computer-administered essay. Time allotted: three hours.	Insurance Institute of America www.aicpu.org
63	Associate in Regulation and Compliance (ARC)	INSIA004	By earning the ARC designation, a participant will gain a better understanding of the insurance regulatory environment and the effect regulation has on the business of insurance. A candidate will be able to understand the interests of both insurance regulators and those who must comply with insurance regulation.	The following courses are required: IR 201-Insurance Regulation; AIAF 111-Statutory Accounting for Property and Liability Insurers; and CPCU 520-Insurance Operations, Regulation, and Statutory Accounting. IR 201/AIAF 111 exam: Eighty-five computer-administered, objective (multiple-choice) questions. Time allotted: two hours; CPCU 520: Computer-administered essay exam. Time allotted: three hours.	Insurance Institute of America www.aicpu.org
64	Associate, Insurance Regulatory Compliance (AIRC)	LOMAS001	Compliance is one of the most critical issues facing life and health insurers today. LOMA's Associate, Insurance Regulatory Compliance (AIRC) Program provides an individual with a comprehensive knowledge base for the complex issues surrounding state and federal regulation of the life and health insurance industry and products. The AIRC Program will provide an understanding of compliance concepts, terms, processes, and regulatory requirements so an individual can avoid unfavorable consequences for a company and speed up the product approval process.	To earn the AIRC designation, an individual must successfully complete six courses (four of the LOMA courses): LOMA 280—Principles of Insurance: Life, Health, and Annuities or LOMA 286—Principles of Financial Services and Products LOMA 290—Insurance Company Operations LOMA 311—Business Law for Financial Services Professionals LOMA 320—Life and Health Insurance Marketing or LOMA 326—Financial Services Marketing AIRC 410—Regulatory Compliance: Companies, Producers, and Operations AIRC 420—Regulatory Compliance: Insurance and Annuity Products	Life Office Management Association (LOMA) www.loma.org
65	Associate, Life and Health Claims (ALHC)	INTCA001	The International Claim Association (ICA) Claims Education Program provides an introduction to life and health insurance and a thorough understanding of claim administration for both individual and group coverage. The valuable working knowledge students gain from the program provides them with a professional edge and becomes their "claim to excellence" in the industry.	Course C1, Medical Aspects of Claims - Describes the anatomy and physiology of the human body, as well as disorders and treatment of the various body systems. Course C2, Life and Health Insurance Law - Provides the student with an understanding of the insurance policy as a legal contract. Sets forth aspects of statutory law, case law, and common law as they pertain to claim administration. Course C3, Claim Administration - Describes the administration of claims under life and health insurance contracts (both individual and group), including investigation and cost control techniques. Course C4, Management of Claim Operations - Focuses on the application of management theory to the operations of claim departments, including the management functions of planning, controlling, organizing and leading. After each course, an individual is required to pass an exam.	International Claim Association www.claim.org

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66	Autodesk Certified Associate - AutoCAD	ADESK016	The Autodesk Certified credential signifies the experience and expertise of design professionals. AutoCAD is the world's leading 2D and 3D CAD application that allows users to design, visualize, and document ideas clearly and efficiently.	The AutoCAD Certified Associate exam is a one-hour on-line examination consisting of 30 questions that assess your knowledge of the tools, features, and common tasks in AutoCAD. The required passing score is 70%. Even though not required, it is recommended the student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 100 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it em?siteID=123112&id=10115126
67	Autodesk Certified Associate - AutoCAD Architecture	ADESK017	The Autodesk Certified credential signifies the experience and expertise of design professionals. AutoCAD Architecture software provides AutoCAD-based design and documentation productivity specifically for architects.	The AutoCAD Architecture Certified Associate exam is a one-hour on-line examination consisting of 30 questions that assess your knowledge of the tools, features, and common tasks in AutoCAD Architecture. The required passing score is 80%. Even though not required, it is recommended the student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 100 hours of hands-on experience before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it em?siteID=123112&id=10115126
68	Autodesk Certified Associate - AutoCAD Civil 3D	ADESK018	The Autodesk Certified credential signifies the experience and expertise of design professionals. The Autodesk civil engineering solution, made up of AutoCAD Civil software and AutoCAD Civil 3D software, provides project teams with a comprehensive surveying, design, analysis, and documentation solution to deliver land development, transportation, and environmental projects fast and with improved accuracy.	The AutoCAD Civil 3D Certified Associate exam is a one-hour on-line examination consisting of 30 questions that assess your knowledge of the tools, features, and common tasks in AutoCAD Civil 3D. The required passing score is 74%. Even though not required, it is recommended the student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 100 hours of hands-on experience before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it em?siteID=123112&id=10115126
69	Autodesk Certified Associate - Inventor	ADESK019	The Autodesk Certified credential signifies the experience and expertise of design professionals. Autodesk Inventor software provides a comprehensive set of 3D modeling and mechanical design tools for producing, validating, and documenting complete digital prototypes.	The Inventor Certified Associate exam is a one-hour on-line examination consisting of 30 questions that assess your knowledge of the tools, features, and common tasks in Inventor. The required passing score is 73%. Even though not required, it is recommended the student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 100 hours of hands-on experience before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it em?siteID=123112&id=10115126
70	Autodesk Certified Associate -Revit Architecture	ADESK020	The Autodesk Certified credential signifies the experience and expertise of design professionals. Revit Architecture building information modeling software allows architects to focus on designing buildings, work in any view, iterate throughout the different design phases, and quickly and easily make changes to major compositional elements in order to design freely and deliver efficiently.	The Revit Architecture Certified Associate exam is a one-hour time limit on-line examination consisting of 30 questions. The required passing score is 74%. Even though not required, it is recommended that a student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 100 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it em?siteID=123112&id=10115126
71	Autodesk Certified Professional - AutoCAD	ADESK021	The Autodesk Certified credential signifies the experience and expertise of design professionals. AutoCAD is the world's leading 2D and 3D CAD application that allows users to design, visualize, and document ideas clearly and efficiently.	To earn the credential of AutoCAD Certified Professional, the student must pass a 90-minute performance based test comprised of 20 questions and also pass the AutoCAD Certified Associate exam in any order. The required passing score is 80%. Even though not required, it is recommended that a student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it em?siteID=123112&id=10115126

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72	Autodesk Certified Professional - AutoCAD Architecture	ADESK022	The Autodesk Certified credential signifies the experience and expertise of design professionals. AutoCAD Architecture software provides AutoCAD-based design and documentation productivity specifically for architects.	To earn the credential of AutoCAD Architecture Certified Professional, the student must pass a 90-minute performance based test comprised of 20 questions and also pass the AutoCAD Architecture Certified Associate exam in any order. The required passing score is 80%. Even though not required, it is recommended that a student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
73	Autodesk Certified Professional - AutoCAD Civil 3D	ADESK023	The Autodesk Certified credential signifies the experience and expertise of design professionals. The Autodesk civil engineering solution, made up of AutoCAD Civil software and AutoCAD Civil 3D software, provides project teams with a comprehensive surveying, design, analysis, and documentation solution to deliver land development, transportation, and environmental projects fast and with improved accuracy.	To earn the credential of AutoCAD Civil 3D Certified Professional, the student must pass a 90-minute performance based test comprised of 20 questions and also pass the AutoCAD Civil 3D Certified Associate exam in any order. The required passing score is 80%. Even though not required, it is recommended that a student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
74	Autodesk Certified Professional - Inventor	ADESK024	The Autodesk Certified credential signifies the experience and expertise of design professionals. Autodesk Inventor software provides a comprehensive set of 3D modeling and mechanical design tools for producing, validating, and documenting complete digital prototypes.	To earn the credential of Inventor Certified Professional, the student must pass a 90-minute performance based test comprised of 20 questions and also pass the Inventor Certified Associate exam in any order. The required passing score is 75%. Even though not required, it is recommended that a student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
75	Autodesk Certified Professional - Revit Architecture	ADESK025	The Autodesk Certified credential signifies the experience and expertise of design professionals. Revit Architecture building information modeling software allows architects to focus on designing buildings, work in any view, iterate throughout the different design phases, and quickly and easily make changes to major compositional elements in order to design freely and deliver efficiently.	To earn the Revit Architecture Certified Professional credential, the student must pass a 90 minute time limit performance based exam consisting of 20 questions and pass the Revit Architecture Certified Associate exam in any order. The required passing score is 85%. Even though not required, it is recommended that a student complete a Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
76	Autodesk Certified User AutoCAD	ADESK002	This certification measures one's knowledge of this product. AutoCAD software allows an individual to design, visualize, and document their ideas clearly and efficiently. Autodesk has one goal: increasing productivity.	Autodesk Certification exams are performance-based exams. Each product area requires an individual to take an exam with a two hour limit. The exams each have 12 sections and 35 questions.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
77	Autodesk Certified User- AutoCAD Architecture	ADESK010	This certification measures one's knowledge of this product. AutoCAD Architecture is designed to help individuals create and manage projects, add and modify wall openings, use layer standards and filters, create and manage plotting sheets, change object displays, etc.	Autodesk Certification exams are performance-based exams. Each product area requires an individual to take an exam with a two hour limit. The exams each have 12 sections and 35 questions.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
78	Autodesk Certified User- AutoCAD Civil 3D	ADESK005	This certification measures one's knowledge of this product. AutoCAD Civil 3D software dynamically connects design and documentation, automating much of the process. Civil 3D also provides integrated tools for developing 3D visualizations to clearly communicate design intent and create winning presentations.	Autodesk Certification exams are performance-based exams. Each product area requires an individual to take an exam with a two hour limit. The exams each have 12 sections and 35 questions.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126

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79	Autodesk Certified User- Autodesk Inventor	ADESK011	This certification measures one's knowledge of this product. Autodesk Inventor software provides a comprehensive set of design tools for producing, validating, and documenting complete digital prototypes.	Autodesk Certification exams are performance-based exams. Each product area requires an individual to take an exam with a two hour limit. The exams each have 12 sections and 35 questions.	Autodesk http://usa.autodesk.com/adsk/servlet/it?em?siteID=123112&id=10115126
80	Avionics Electronics Technician	ETAIN006	Avionics Electronics Technicians must be knowledgeable and have functional abilities in the following technical areas: Avionics Systems, Cables and Cabling, Computers and Digital Concepts, Amplifiers, Interfacing, Antennas & Transmission Lines, Components, Mathematics, Network Topologies and Infrastructures, People Relations, Optical Cabling, Safety, Test Equipment & Tools, Satellite Communications, and Troubleshooting.	A technician with two or more years of combined work and electronics training may apply for the Journeyman exam. To be a fully Certified Electronics Technician, an entire certification exam must be passed, which consists of the Associate level exam, plus one of the specialized Journeyman options. This exam deals with advanced practice and theory applicable to the electronics specialty selected. The Journeyman level exam is a two hour exam and the applicant must score at least 75% on both the Associate and the Journeyman exams to pass. A technician who has a valid Associate certification will be required to write only the Journeyman option. Avionics electronics technicians are expected to obtain knowledge of wired and wireless communications basic concepts which are then applicable to various types of avionics systems as they are used in the aeronautics field. It is also highly recommended that the Avionics technician have an FCC General Radio Telephone Operator license.	Electronics Technician Association www.eta-i.org/CertsGroups.html
81	Basic X-ray Machine Operator	FDMAQ001	In 1978, the Legislature authorized the Department of Health to certify people who operate x-ray machines or who otherwise use radiation on people for medical reasons.	To become certified, each applicant must pass a test typically covering radiation protection, equipment operation and maintenance, image production and evaluation, procedures, and patient care. Each certificate is valid for two years during which the technologist must obtain 12 hours of continuing education. The department evaluates each continuing education course and furnishes a list of approved course providers to each technologist.	Fl Dept. of Health/Division of Medical Quality Assurance http://www.doh.state.fl.us/environment/radiation/radtech1.htm
82	Biomedical Auditor Certification (CBA)	AMSFQ002	The Certified Biomedical Auditor is a professional who understands the principles of standards, regulations, directives and guidance for auditing a biomedical system while using various tools and techniques to examine, question, evaluate and report on that system's adequacy and deficiencies.	Five years of on-the-job experience (at least one year must be in a decision-making role) and pass a 4-hour written exam that consists of 135 multiple-choice questions that measures comprehension of the Body of Knowledge (Auditing Fundamentals, Auditing & Inspection Processes, Biomedical Quality Management System Requirements, Technical Biomedical Knowledge, and Quality Tools & Techniques).	American Society for Quality (ASQ) www.asq.org/store/training-certification
83	Calibration Technician - CCT	AMSFQ003	The Certified Calibration Technician tests, calibrates, maintains and repairs electrical, mechanical, electromechanical, analytical and electronic measuring, recording and indicating instruments and equipment for conformance to established standards.	Five years of on-the-job experience and pass a 4-hour written exam that consists of 125 multiple-choice questions that measures comprehension of the Body of Knowledge (General Metrology, Measurement Systems, Calibration Systems, Applied Mathematics and Statistics, Quality Systems and Standards, and Uncertainty).	American Society for Quality (ASQ) www.asq.org/store/training-certification
84	CEA-CompTIA Digital Home Technology Integrator (DHTI+) DOE TITLE IS "CompTIA DHTI+"	COMPT004	CEA-CompTIA DHTI+ validates the knowledge and skills of home technology professionals. It is an international, vendor-neutral certification that recognizes a technician's ability to configure, integrate, maintain, troubleshoot, and comprehend the basic design concepts of electronic and digital home systems.	It is recommended that CEA-CompTIA DHTI+ candidates have 18-24 months experience in some area of home integration technology. The certification exam is 97 questions, 90 minutes. The minimum passing score is 680.	Computing Technology Industry Association (CompTIA) www.comptia.org

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85	Certification for Legal Professionals	TAFLP001	Entry-level certification as an accredited legal professional.	Pass a four hour exam with three components: 1) written communication; 2) office procedures and legal knowledge; and 3) ethics, human relations, and judgment.	The Association for Legal Professionals (ALS) www.nals.org
86	Certified Administrative Professional (CAP)	IAOAP001	The outline for CAP certification is Office Systems and Technology, Office Administration, Management, and Advanced Organizational Management.	An applicant with a bachelor's degree needs two years administrative experience. An applicant with an associate degree needs three years administrative experience. An applicant with no college degree needs four years administrative experience. CAP exam applicants must have all experience complete and verified at the time they submit their application. Plan to spend 8-10 hours per week dedicated to intensive study of each area. Candidates may need 3-6 hours of course work at community college level in the areas covered on Parts 1-3 of the CAP exam. For Part 4 of the CAP exam 6-9 hours of upper division management courses are recommended, or the equivalent in on-the-job management training courses.	International Association of Administrative Professionals (IAAP) www.iaap-hq.org
87	Certified Alcohol & Other Drug Abuse Counselor (AODA-C)	ICARC001	This certification enhances an individual's reputation in the counseling, clinical supervision and/or co-occurring disorders profession. It confirms proficiency as a counselor, clinical supervisor and/or co-occurring disorders professional.	Requirements are as follows: 6,000 hours of supervised work experience specific to the AODA domains [An associate's degree in behavioral science may substitute for 1,000 hours; a bachelor's degree in behavioral science may substitute for 2000 hours]; Total of 350 hours of education; and 300 hours of supervision. Applicants must pass the IC&RC International written AODA examination and the State written exam.	International Certification & Reciprocity Consortium (IC&RC) Alcohol & Other Drug Abuse, Inc. www.icrcaoda.org
88	Certified Auditor	IROCA001	Many auditors complete International Register of Certified Auditors (IRCA) certified courses to meet the training requirement for IRCA certification. Others choose IRCA certified training because it represents an industry-accepted benchmark qualification for professionals involved in the development, implementation and maintenance of management systems. Currently there are over 90 IRCA approved training organizations who between them present more than 5,000 certified courses each year.	ISO 9000: 1994 series lead auditor course- Those intending to acquire the competence to audit an organization. ISO 9001:1994 based management system, either as third or second party auditor -Course requirement for certification as an auditor. Five days plus a 2-hour written examination.	International Register of Certified Auditors (IRCA) www.irca.org
89	Certified Bank Teller (CBT)	ICBNK001	The Institute of Certified Bankers offers a program that is open to all financial services professionals with six months or more experience in the financial services industry, specifically who function as bank tellers. Professional knowledge areas of the certification include: Teller Operations, Sales and Service, Banking Basics, Specific Business Competencies, and Ethics.	A minimum of six (6) months of experience as a bank teller and completion of the American Institute of Banking (AIB) Bank Teller Certificate- which includes completion of the following (9) courses: AIB Banking Today; AIB Business Etiquette; AIB Dealing Effectively with Co-Workers; AIB Effective Referrals; AIB Ethical Issues for Bankers; AIB Introduction to Relationship Selling; AIB Regulatory Compliance for Tellers; AIB Revitalizing Customer Service; and AIB Today's Teller. One letter of recommendation is required from a senior manager attesting to an individual's qualifications for certification including one's experience as a bank teller and their ethical character. The CBT exam consists of 75 multiple-choice questions.	Institute of Certified Bankers www.aba.com/ICBCertifications
90	Certified Bookkeeper	AIOPB001	The American Institute of Professional Bookkeepers' (AIPB) mission is to achieve recognition of bookkeepers as accounting professionals and keep them up to date on accounting and tax information.	At least two years experience or the part time freelance equivalent; must pass a four-part national exam, including a Code of Ethics.	American Institute of Professional Bookkeepers www.aipb.org

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91	Certified Business Manager (CBM)	APIBM001	The CBM is a masters-level professional certification based on an MBA curriculum. In other words, the CBM is a standardized exam based on the topics covered in the majority of MBA programs. The CBM Designation validates the mastery of business management knowledge, skills, and abilities and is developed by business practitioners to meet the needs of practicing business managers. The goal is to make the CBM curriculum relevant, useful, and practical.	The CBKB is organized into ten learning modules and 168 sub-modules or topics. The CBM candidate is required to demonstrate proficiency in all of the ten learning modules according to the weights allocated to each module. The CBM Exam consists of four parts: Part 1 - The Core Exam consisting of 150 multiple-choice questions; Part 2 - The Functional Exam consisting of 150 multiple-choice questions; Part 3 - The Integrated Exam consisting of 100 multiple-choice questions; and Part 4 - The Capstone Exam consisting of a written analysis of a Harvard Business School case. The CBM Designation is awarded to individuals who meet the eligibility requirements and pass the 16-hour, four-part exam.	Association of Professionals in Business Management www.apbm.org
92	Certified Cardiographic Technician (CCT)	CCINT001	Professionals working in the areas of EKG, Holter monitoring and Stress testing are candidates for this certification. Knowledge areas include: Basic Cardiovascular Anatomy & Physiology; ECG Techniques & Recognition; Electrophysiology; Stress Test Techniques; Holter Monitoring; and Cardiac Medications.	Pass the one-part Certified Cardiographic Examination.	Cardiovascular Credentialing International www.cci-online.org
93	Certified Coding Associate (CCA)	AHIMA001	The Certified Coding Associate (CCA) is an individual entering the health information management industry as a coder. A CCA shows a commitment to coding and allows new coders to immediately demonstrate their competency in the field with little to no job experience.	CCA candidates must have earned a high school diploma or equivalent. Even though not required, it is strongly recommended that candidates have at least six months experience in a healthcare organization applying ICD-9-CM and CPT coding conventions and guidelines, or have completed either an AHIMA-approved coding certificate program, or other formal coding training program. The CCA examination is two hours consisting of 100 questions.	American Health Information Management Association www.ahima.org/certification/index.asp
94	Certified Coding Specialist (CCS)	AHIMA002	Certified Coding Specialists (CCS) are professionals skilled in classifying medical data from patient records, usually in a hospital setting. CCS review patients' records and assign numeric codes for each diagnosis and procedure. Possess expertise in the ICD-9-CM and CPT coding systems as well as knowledge of medical terminology, disease processes, and pharmacology.	CCS candidates must have earned a high school diploma or equivalent. Although not required, it is strongly recommended that candidates have: (1) at least three years of on-the-job experience in hospital-based inpatient coding and Ambulatory/Outpatient Care coding for multiple case types and (2) completed coursework in anatomy and physiology, pathophysiology, and pharmacology, or demonstrated proficiency in these areas. The CCS examination consists of two parts. Part I consists of 60 four option, multiple-choice questions. Part II (Medical Record Coding), requires coding of 13 medical records containing seven outpatient records and six inpatient records.	American Health Information Management Association www.ahima.org/certification/index.asp
95	Certified Coding Specialist-Physician-based (CCS-P)	AHIMA003	The Certified Coding Specialist - Physician-based (CCS-P) is a coding practitioner with expertise in physician-based settings and in-depth knowledge of the CPT coding system and familiarity with the ICD-9-CM and HCPCS Level II coding systems.	CCS-P candidates must have earned a high school diploma or equivalent. Although not required, it is strongly recommended that candidates have: (1) at least three years of on-the-job experience in coding for physician services in multiple settings utilizing codes in the E/M, surgery, medicine and/or anesthesia, radiology and laboratory chapters of CPT and HCPCS II. (2) Completed coursework in anatomy and physiology, pathophysiology, and pharmacology, or demonstrated proficiency in these areas. The CCS-P examination consists of two parts. Part I consists of 60, four option, multiple-choice questions. Part II, Medical Record Coding, requires performance of diagnostic (ICD-9) and procedural (CPT and HCPCS Level II) coding for physician services. A total of 16 records from the hospital, emergency room, operating room, and physician office/clinic settings will be used.	American Health Information Management Association www.ahima.org/certification/index.asp

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96	Certified Computing Professional (CCP)	ICOCP001	By attaining certification through the ICCP, an individual can join a growing distinguished group of knowledgeable and expert computer professionals. They come from every area of the business, government and educational communities, and from around the world. Professionals certified with the ICCP serve as consultants, work in local, state and federal government; in accounting and banking; in high schools, technical schools, colleges and universities; in the manufacturing industry; in insurance and numerous other fields.	Pass three objective exams- the Core examination and any two Specialty exams; or the Core examination, any one Specialty exam, and any two Language exams; or the Core examination and any one Specialty exam and concurrently hold another approved computing professional certificate (ask ICCP office for current approved list). Candidates must have at least 48 months of full-time (or part-time equivalent) direct experience in computer-based information systems.	Institute for Certification of Computing Professionals (ICCP) www.iccp.org
97	Certified Construction Manager (CCM)	CMAOA001	Topics covered include: Project Management, Cost Management, Time Management, Contract Administration, Quality Management, Professional Practice, and Safety & Risk Management.	To become a Certified Construction Manager (CCM), an individual must have a requisite amount of experience and/or education. The eligibility requirements are outlined below: 1. 48 months experience as a CM in the qualifying areas as defined by the Qualifications Matrix and 2. One of the following: a. An undergraduate (four-year BA/BS level) or graduate degree in construction management, architecture, engineering or construction science. b. A two-year undergraduate degree (AA/AS level) or certificate in construction management, architecture, engineering or construction science and four years experience in general design/construction (this experience is in addition to the 48 month CM requirement). c. No degree/certificate in construction management, architecture, engineering or construction science and eight years experience in general design/ construction (this experience is in addition to the 48-month CM requirement).	Construction Management Association of America www.cmaanet.org
98	Certified Corrections Officer (CCO)	AMCOA001	The Corrections Certification Program is designed to advance the overall knowledge level of practitioners in the corrections field, promote the capabilities of corrections professionals to the public, and enhance society's image of corrections personnel and, thereby, aid in the recruitment of new, talented staff members. The purpose of the Corrections Certification Program is to provide a national, voluntary method by which individuals can gain recognition as qualified corrections practitioners. Certified Corrections Officers work directly with offenders in a corrections-related agency implementing agency procedures.	Must have completed a high school diploma/GED; have a minimum of one year in his/her present position; and received from his/her immediate supervisor a "satisfactory" (or better) performance evaluation and is a person in good standing at his/her workplace. Successfully passing an examination that deals with one's professional knowledge, is the final step in becoming a Certified Corrections Professional. Candidates have up to four hours to complete a 200-item, multiple-choice examination dealing with two comprehensive areas: general topics related to the corrections field as a whole, and discipline-specific content. An overall grade of 75 is required to pass.	American Correctional Association www.aca.org/certification
99	Certified Corrections Officer/Provisional (CCO/P)	AMCOA002	This category includes graduating students who have studied for a career in correctional setting and DOC Training Academy graduating cadets. Individuals in this program will work directly with offenders.	For certification status to become permanent (as a Certified Corrections Officer) those who pass the CCO/P exam must secure a full-time position in a corrections-related agency (within two-years from their exam date) and receive a satisfactory performance rating from their immediate supervisor after one-year on-the-job.	American Correctional Association www.aca.org/certification

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100	Certified Dental Assistant (CDA)	DANBD001	The CDA examination consists of three component examinations: General Chairside (GC) Assisting; Radiation Health and Safety (RHS); and Infection Control (ICE).	Dental assistants are eligible to take the CDA examination if they have completed a dental assisting program accredited by the Commission on Dental Accreditation. Individuals who have been trained on the job or have graduated from non-accredited programs are also eligible to take the national certification examination after they have completed two years of full-time work experience as dental assistants. The complete examination (including all three components- GC, RHS, and ICE) consists of 320 questions and individuals have four hours to complete it.	Dental Assisting National Board, Inc. (DANB) www.danb.org
101	Certified Dental Technician	NCDLT001	Dental technicians who are certified work directly with dentists by following detailed written instructions and using impressions (molds) of the patient's teeth or oral soft tissues to create: full dentures for patients who are missing all of their teeth; removable partial dentures or fixed bridges for patients who are missing only one or a few teeth; crowns, which are caps for teeth that are designed to restore their original size and shape; veneers that enhance the esthetics and function of the patient; and orthodontic appliances and splints to help straighten and protect teeth.	In most cases, an individual needs a high school diploma or its equivalent to apply to an accredited dental laboratory technology program. A candidate for certification must successfully complete three examinations, taken in any order, within a four-year period: a written comprehensive, a specialty practical, and a specialty written. The comprehensive examination has 160 multiple-choice questions and the specialty written examinations have 80 multiple-choice questions. The five specialties to choose from are: complete dentures, removable partial dentures, crown and bridge, ceramics or orthodontics.	National Board for Certification in Dental Laboratory Technology www.nbccert.org
102	Certified EKG Technician (CET)	NATHA002	Cardiovascular technologists and technicians 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. Cardiovascular technicians who specialize in electrocardiograms (EKGs), stress testing, and Holter monitors are known as cardiographic technicians, or EKG technicians.	Applicant must be 18 years of age or older, must have completed high school and must have worked in the field they seek certification for at least two years. This program consists of a home study program covering the mastery skills and competencies of each discipline which is followed up by an assessment test.	National Healthcareer Association www.nhanow.com
103	Certified Engineering Technologist (CT)	NICET002	The National Institute for Certification in Engineering Technologies (NICET) grants certification to individuals who have met the Institute's standards as established by a committee of experts in the particular practice area. An individual who has invested the effort to pursue and achieve certification is sought by employers who value demonstrated knowledge, experience, and a sense of professionalism on the part of their employees and contractors.	Technologist certification requires a Bachelors Degree in an engineering technology program accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET). The Associate Engineering Technologist (AT) grade is available upon graduation, while the Certified Engineering Technologist (CT) grade requires at least five years of related work experience after graduation. CT applicants must also submit two endorsements.	National Institute for Certification in Engineering Technologies (NICET) www.nicet.org
104	Certified Financial Planner (CFP)	CFPBS001	Certified Financial Planner Certification can help an individual identify financial planners who are committed to competent and ethical financial planning. As recently mentioned on the front page of The New York Times, individuals authorized by CFP Board to call themselves CFP professionals have completed the established and rigorous education, examination, experience and ethical requirements of the CFP certification process.	A bachelor's degree (or higher), or its equivalent, in any discipline, from an accredited college or university is required to attain CFP certification. The bachelor's degree requirement is a condition of initial certification; it is not a requirement to be eligible to take the CFP Certification Examination. The CFP Certification Examination tests an individual's ability to apply their financial planning knowledge to client situations. The ten hour exam is divided into three separate sessions. Because of the integrated nature of financial planning, however, each session may cover all topic areas. At least three years of qualifying full-time work experience are required for certification.	Certified Financial Planner Board of Standards, Inc. Wwww.cfp-board.org

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105	Certified Fire Fighter	FLSFM002	To be a career Firefighter in the State of Florida, an individual must submit an Application for Certification as a Firefighter II and successfully complete the Firefighter Minimum Standards Course. The Firefighter Minimum Standards State Certification Course for firefighters is a mentally, physically, and emotionally challenging program that includes extensive classroom and practical elements. The 480-hour course runs for twelve consecutive weeks.	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. Ref Florida Statutes 633.35 The division shall issue a certificate of compliance to any person satisfactorily complying with the training program established in subsection (1), who has successfully passed an examination as prescribed by the division.	Florida Department of Financial Services, State Fire Marshall, Bureau of Fire Standards & Training www.myfloridacfo.com/sfm
106	Certified Firefighter (C.F.)	AAEX001	Aircraft Rescue & Firefighting (ARFF) Certification Program enhances the professionalism of airport firefighters at all levels and at every airport. The FAA requires airport firefighters meet and maintain minimum standards. This voluntary, self-study certification program is intended to supplement existing state and local training programs.	C.F. level candidates must have two (2) years of continuous ARFF work experience at an airport. ARFF personnel who work at civilian airports which utilize volunteer ARFF departments as primary responders are eligible to participate in the program. Military service counts on a two-for-one basis. Recognizes personnel who have passed the 150 question written exam covering the candidate's knowledge of airport firefighting operations at every level.	American Association of Airport Executives www.aaae.org/products/220_Training_Certifications
107	Certified Food Manager (CFM)	IFSEA001	Food managers are responsible for the daily operations of restaurants and other establishments that prepare and serve meals and beverages to customers. Besides coordinating activities among various departments, such as kitchen, dining room, and banquet operations, food service managers ensure that customers are satisfied with their dining experience. In addition, they oversee the inventory and ordering of food, equipment, and supplies and arrange for the routine maintenance and upkeep of the restaurant, its equipment, and facilities.	The CFM test has 80 questions. The CFM test demonstrates an individual's knowledge in the following areas, with about eight questions per section: Basic Cooking; Beverages and Wines; Dining Room Service; Dining Room Setup; General Industry Knowledge; Human Resources; Menu Development; Purchasing; Accounting and Cash; and Sanitation.	International Food Service Executive Association www.ifsea.com/index.htm
108	Certified Fraud Examiner (CFE)	ACFEX001	Globally preferred by employers, the Certified Fraud Examiner (CFE) designation denotes proven expertise in fraud prevention, detection, deterrence and investigation. Members with the CFE credential experience professional growth and quickly position themselves as leaders in the global anti-fraud community.	At the time an individual is certified, he/she must have at least two years of professional experience in a field either directly or indirectly related to the detection or deterrence of fraud. Generally, applicants for CFE certification have a minimum of a Bachelor's degree (or equivalent) from an institution of higher learning; be an associate member of the Association of Certified Fraud Examiners (ACFE) in good standing; submit the certification application with proof of education and professional recommendations; and pass the CFE Examination- a Windows-based program that tests knowledge and expertise in the four primary areas of fraud investigation: fraudulent financial transactions, legal elements of fraud, fraud investigation, and criminology and ethics. Individuals must gain final approval from the certification committee.	Association of Certified Fraud Examiners www.acfe.com

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109	Certified Grounds Manager (CGM)	PROGM001	The society defines a grounds manager as a member of a management team responsible for the operation and maintenance of a site or sites. The grounds manager is responsible for the management of staff, money, materials and equipment utilized in maintaining and enhancing a landscaped site including turf, trees, woody ornamentals and flowers, outdoor structure and related facilities.	A candidate must meet one of the three criteria below: A Bachelor of Science in a recognized green industry field, including management and four years of experience in the field of grounds maintenance, of which two years are supervisory. A two year degree from a recognized college or junior college, plus six years of experience in the grounds maintenance field with a minimum of three years of supervisory experience. Eight years in the grounds maintenance field, with a minimum of four years of supervisory experience. The examination process consists of two parts.	Professional Grounds Management Society www.pgms.org
110	Certified Health Unit Coordinator (CHUC)	NAHUC001	The Certified Health Unit Coordinator (CHUC) demonstrates knowledge and skill in four major areas: Transcription of Orders; Coordination of Health Unit; Equipment/Technical Procedures; and Professional Development.	Prerequisites: If a candidate is currently a health unit coordinator (ward clerk, floor secretary, unit secretary, etc.), or has completed a training program to become a health unit coordinator, or is involved with health unit coordinating activities, they may test for certification. A candidate must also have, at minimum, a high school diploma or GED. The NAHUC examination consists of 120 questions. The examination is designed as a nationally administered comprehensive job-related objective examination. The examination measures knowledge and skills in areas of job performance that the NAHUC Certification Board regards as essential. A candidate has 2.5 hours to complete the examination.	National Association of Health Unit Coordinators, Inc. www.nahuc.org
111	Certified Home Care Aide	NAHCH001	The Home Care Aide Certification Program establishes national standards for preparation of home care aides. Since its inception, the program has certified over 25,000 home care aides nationwide.	The program is composed of three competency-based elements: Training is 75 hours based on the Model curriculum; Skills Demonstration consists of a skills competency assessment checklist; and a written examination.	National Association for Home Care www.nahc.org
112	Certified Horticulture Professional (FCHP)	FNGLA001	The Florida Nursery, Growers & Landscape Association (FNGLA) Certified Horticulture Professional (FCHP) program is the industry's only standard for measuring horticulture knowledge on everything from plant and pest identification to landscape management. FCHP promotes professionalism among horticulture professionals, including nursery, greenhouse, landscape and retail garden center employees. The FCHP certification exam emphasizes general plant/soil sciences, pest/plant identification techniques, and plant usage/management in the landscape.	An individual must meet one of the following criteria: 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 consist of: Aromatherapy and Plants; Butterfly Gardens; BMPs for the Landscape; Color in the Garden; Design of Container Gardens; Down and Dirty of Container Gardens; Environmental Horticulture; Fresh Air with Fresh Interiors; Garden Therapy; Horticultural Awareness; Safety and First Aid; Supervising for Safety. Candidates must pass a comprehensive four-part three hour written exam. Certified Horticulture Professionals are required to maintain 15 hours of continuing education every three years. Four required courses: Human Resource Management; Training, Development and problem diagnosis; Organizational culture and motivation; Management; and History and Philosophy of Credit Unions. Four Exams- each 100 questions, two hours.	Florida Nursery, Growers & Landscape Association www.fngla.org
113	Certified Human Resource Specialist (CHRS)	CUNAT001	Compensation, benefits, and job analysis specialists conduct programs for employers and may specialize in specific areas such as position classifications or pensions. Job analysts, occasionally called position classifiers, collect and examine detailed information about job duties in order to prepare job descriptions. These descriptions explain the duties, training, and skills that each job requires. Whenever a large organization introduces a new job or reviews existing jobs, it calls upon the expert knowledge of the job analyst.	Four required courses: Human Resource Management; Training, Development and problem diagnosis; Organizational culture and motivation; Management; and History and Philosophy of Credit Unions. Four Exams- each 100 questions, two hours.	Credit Union National Association www.training.cuna.org

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114	Certified in Production and Inventory Management (CPIM)	TAFOM001	The program is designed to develop specialized knowledge in the very latest production and inventory management techniques and trends, including production planning, materials and capacity requirements planning, just in time, and systems and technologies.	Candidates must pass all five exams for the following modules: Basics of Supply Chain Management; Master Planning of Resources; Detailed Scheduling and Planning; Execution and Control of Operations; and Strategic Management of Resources.	The Association for Operations Management www.apics.org
115	Certified Industrial Maintenance Mechanic	INSOC001	Certified Industrial Maintenance Mechanic (CIMM) are responsible for preventive, predictive and corrective maintenance. They perform troubleshooting and analysis, and apply sound maintenance practices in all aspects of their work. CIMMs are multi-skilled individuals whose expertise is primarily mechanical in nature as opposed to instrumentation or electrical.	Applicants must meet the following qualifications to be eligible to sit for the CIMM exam: (1) minimum of five years of relevant work experience in the maintenance mechanic field in an industrial setting (or three years experience if the education requirement is met). (2) A two year associate degree in maintenance or related field from an accredited institution or a two year apprenticeship program certified through the U.S. Department of Labor. The CIMM examination is closed book with a 4-hour time limit that covers four major performance domains: maintenance practices; preventive and predictive maintenance; troubleshooting and analysis; corrective maintenance.	Instrument Society of America www.isa.org
116	Certified Insurance Fraud Investigator	IASIU001	The Certified Insurance Fraud Investigator program is an accrediting process for individuals with the specialized skills required to detect, investigate and deter insurance fraud. The program has a high standard for admission and testing which includes adherence to The International Association of Special Investigative Unit's code of ethics, and a demonstrated competency through mandatory continuing professional education.	The applicant must comply with the International Association of Special Investigative Units (IASIU) code of ethics to take the examination. In addition, to be eligible for the examination, the applicant must score a minimum of 30 points in the SIU Investigative Experience category and a minimum of 100 points overall on the Education and Experience Form. Three letters of professional recommendation must be submitted, one of which must be from a regular IASIU member.	The International Association of Special Investigative Units www.iasiu.org
117	Certified Internal Auditor (CIA)	TIOIA001	The Certified Internal Auditor (CIA) designation is the only globally accepted certification for internal auditors and remains the standard by which individuals demonstrate their competency and professionalism in the internal auditing field.	Certified Internal Auditor (CIA) candidates must hold a bachelor's degree or its equivalent from an accredited college-level institution. CIA candidates must complete 24 months of internal auditing experience or its equivalent. Equivalent experience means experience in audit/assessment disciplines, including external auditing, quality assurance, compliance, and internal control. A master's degree or work experience in related business professions (such as accounting, law, or finance) can be substituted for one year of experience. Candidates may sit for the CIA exam prior to satisfying the professional experience requirement, but they will not be certified until the experience requirement has been met.	The Institute of Internal Auditors www.theiia.org/guidance/
118	Certified Internet Web (CIW) Application Developer	PROSO005	The CIW Application Developer exam focuses on the creation of interactive Web pages using client-side and server-side Web applications, and related component technology implementations. This certification validates knowledge and skills in building client-side and server-side Web applications using Rapid Application Development tools, and using component technologies to implement two-tier database connectivity solutions.	An individual must first earn the CIW Associate certificate and then pass the Application Developer exam that covers the following areas: Fundamentals of CGI Using Perl and Dynamic Server Pages. Preparation for the exam includes 30 hours of instructor led training.	Prosoft Learning www.ciwcertified.com

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119	Certified Internet Web (CIW) Associate Design Specialist	PROSO001	The new CIW Associate Design Specialist Certification is a perfect fit for academic and training organizations that want to deliver vendor-neutral Web design instruction and industry certification. Individuals will learn the basics of Web design along with today's most current information such as XHTML coding, image editing, validation, CSS, GUI editors, server-side and client-side languages, e-commerce models and more.	The candidate must pass the Site Development Foundations module exam and the Site Designer exam.	Prosoft Learning www.ciwcertified.com
120	Certified Internet Web (CIW) Database Specialist	PROSO006	The CIW Database Specialist exam focuses on the planning and design of relational databases. This certification validates knowledge and skills in defining the structure of a database; employing Entity Relationship (ER) diagrams and normalization to optimize databases; building database client applications; and performing database maintenance and security administration.	An individual must first earn the CIW Associate certificate and then pass the CIW Database Specialist exam. Preparation for the exam includes 30 hours of instructor led training.	Prosoft Learning www.ciwcertified.com
121	Certified Internet Web (CIW) Enterprise Specialist	PROSO007	The CIW Enterprise Specialist exam focuses on the development and deployment of complete software solutions tailored to business domains. This certification validates knowledge and skills in building n-tier database business solutions using Java in conjunction with distributed application architecture technologies such as Enterprise JavaBeans and CORBA.	An individual must first earn the CIW Associate certificate and then pass the CIW Enterprise Specialist exam. Preparation for the exam includes 30 hours of instructor led training.	Prosoft Learning www.ciwcertified.com
122	Certified Internet Web (CIW) E-Commerce Designer Professional	PROSO003	The CIW E-Commerce Designer exam focuses on standards, technologies and practices for both business-to-business and business-to-consumer e-commerce models. This certification addresses relationships among marketing, promotion, customer service, user interaction, purchasing methods and secure transactions by using SSL and SET, payment gateways, inventory control, shipping and order information, and site performance testing and evaluation.	An individual must first earn the CIW Associate certificate and then pass the CIW v5 E-Commerce Designer exam that covers the following areas: E-Commerce Site Development; E-Commerce Technology and Security; and E-Commerce Business, Marketing and Legal Issues.	Prosoft Learning www.ciwcertified.com
123	Certified Internet Web (CIW) Internetworking Professional	PROSO008	The CIW Internetworking Professional exam focuses on network architecture and infrastructure components. This certification validates knowledge and skills in defining network architecture; identifying infrastructure components; monitoring and analyzing network performance; and designing, managing and troubleshooting enterprise TCP/IP networks.	An individual must first earn the CIW Associate certificate and then pass Internetworking Professional exam that covers the following areas: TCP/IP Internetworking and Advanced TCP/IP Concepts and Practices. Preparation for the exam includes 30 hours of instructor led training.	Prosoft Learning www.ciwcertified.com
124	Certified Internet Web (CIW) Master Administrator	PROSO013	Master CIW Administrators configure, manage and deploy e-business solutions servers; design and management of enterprise TCP/IP networks; and deploy e-business and network security solutions. Master CIW Administrator certification can lead to a successful career as a systems administrator, online services manager, online community manager, Internet or intranet network engineer, or IT department associate or manager.	The candidate must pass four required CIW exams to become a Master CIW Administrator: CIW v5 Foundations; CIW Server Administrator CIW Exam; CIW Internetworking Professional; and CIW Security Professional.	Prosoft Learning www.ciwcertified.com

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125	Certified Internet Web (CIW) Master Designer	PROSO004	Master CIW Designers develop and maintain Web sites using authoring and scripting languages, create content and digital media, and employ standards and technologies for both business-to-business and business-to-consumer e-commerce Web sites. Master CIW Designer certification can lead to a successful career as a Web designer, creative director, Web marketing/ business specialist or art director.	Candidates must pass three required CIW exams to become a Master CIW Designer: CIW v5 Foundations, CIW Site Designer and the CIW E-Commerce Designer exam.	Prosoft Learning www.ciwcertified.com
126	Certified Internet Web (CIW) Master Enterprise Developer	PROSO014	Master CIW Enterprise Developers build n-tier database and legacy connectivity solutions for Web applications using Java, Java APIs, Java Database Connectivity (JDBC) solutions, middleware tools, and distributed object models such as CORBA/ORB and IIOP. Master CIW Enterprise Developer certification can lead to a successful career as a database developer and administrator, Internet application developer, middleware programmer, Java developer and client/server developers.	The candidate must pass seven required CIW exams to become a Master CIW Enterprise Developer: CIW v5 Foundations; CIW JavaScript Fundamentals; CIW Perl Fundamentals; CIW Application Developer; Sun Certified Programmer for Java 2; CIW Database Specialist and CIW Enterprise Specialist.	Prosoft Learning www.ciwcertified.com
127	Certified Internet Web (CIW) Master Web Site Manager	PROSO015	Master CIW Web Site Managers can manage Web servers and maintain Web sites for small, medium and large enterprises. Master CIW Web Site Manager certification can lead to a successful career as a Webmaster, intranet or extranet Web administrator, or Internet project manager.	The candidate must pass five required CIW exams to become a Master CIW Web Site Manager: CIW v5 Foundations; CIW Site Designer; CIW Server Administrator; CIW JavaScript Fundamentals; and CIW Perl Fundamentals.	Prosoft Learning www.ciwcertified.com
128	Certified Internet Web (CIW) Professional	PROSO002	CIW Professionals have certified their knowledge and skills in a specific IT discipline. This mid-level CIW job-role certification validates the individual's knowledge in foundational IT skills as well as more advanced skills in a job role of choice. CIW Professional certifications are best suited to individuals who are now performing jobs or pursuing careers in mid-level technical positions.	CIW v5 Foundations - required exam; and pass any of the following exams: CIW Site Designer, CIW E-Commerce Designer, CIW Server Administrator, CIW Internetworking Professional, CIW Security Professional, CIW Application Developer, CIW Database Specialist, or CIW Enterprise Specialist.	Prosoft Learning www.ciwcertified.com
129	Certified Internet Web (CIW) Security Analyst	PROSO009	CIW Security Analysts configure, manage and deploy e-business solutions servers; and implement e-business and network security solutions. This CIW certification recognizes the achievements of those who have already attained a level of proficiency in networking administration and now want to validate and prove their competencies in security.	The candidate must meet the following requirements: Pass one required CIW Security Professional exam and submit proof of one valid networking administration certification to become a CIW Security Analyst.	Prosoft Learning www.ciwcertified.com
130	Certified Internet Web (CIW) Security Professional	PROSO010	The CIW Security Professional exam focuses on management and deployment of e-business transaction and payment security solutions. This certification validates knowledge and skills in implementing e-business security policies; identifying security threats; developing countermeasures using firewall systems and attack-recognition technologies; and managing the deployment of security solutions.	It is highly recommended that candidates take (and pass) the CIW Foundations exam prior to taking the CIW Security Professional exam. An individual must pass the CIW Security Professional exam that covers the following areas: Network Security and Firewalls; Operating Systems Security; and Security Auditing, Attacks and Threat Analysis. Preparation for the exam includes 30 hours of instructor led training.	Prosoft Learning www.ciwcertified.com

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131	Certified Internet Web (CIW) Server Administrator Professional	PROSO011	The CIW Server Administrator exam focuses on server and network administration tasks and tools implemented by IT professionals. CIW Server Administrators manage and tune corporate e-business solutions and infrastructure including Web, FTP, news and mail servers, for midsize to large businesses. This certification validates knowledge and skills in configuring, managing and deploying e-business solutions servers.	An individual must first earn the CIW Associate certificate and then pass the CIW Server Administrator exam that covers the following areas: Internet Systems Management and Advanced Internet Systems Management. Preparation for the exam includes 30 hours of instructor led training.	Prosoft Learning www.ciwcertified.com
132	Certified Internet Web (CIW) Site Designer Professional	PROSO012	The CIW Site Designer exam validates human-factor principles in designing, implementing and maintaining hypertext-based Web sites using authoring and scripting languages, content creation and management tools, and digital media tools.	An individual must first earn the CIW Associate certificate and then pass the CIW v5 Site Designer exam that covers the following areas: Site Development Essentials; Web Design Elements; Basic Web Technologies; and Advanced Web Technologies.	Prosoft Learning www.ciwcertified.com
133	Certified Legal Assistant (CLA)	NAOLA002	The Certifying Board for Legal Assistants is responsible for content, standards and administration of the Certified Legal Assistant Program. It is composed of legal assistants who have received a CLA Specialist designation, attorneys and legal assistant educators.	Graduation from a legal assistant program that is: approved by the American Bar Association; or An associate degree program; or a post-baccalaureate certificate program in legal assistant studies; or a legal assistant program which consists of a minimum of 60 semester hours (900 clock hours or 90 quarter hours) of which at least 15 semester hours (225 clock hours or 22.5 quarter hours) are substantive legal courses. The CLA/CP examination is a two-day comprehensive examination based on federal law and procedure.	National Association of Legal Assistants, Inc. www.nala.org
134	Certified Lending Specialist (CLS)	CUNAT002	By completing this new interactive online course, an individual will gain an understanding of the mortgage loan servicing process. Individuals also learn about mortgage loan documents, interest, servicing payments, escrow accounts, member relations, collections, and loan servicing technologies.	Required courses and an exam following each course: Credit and Collections; Mortgage Lending; Consumer Lending; Management; and History and Philosophy of Credit Unions.	Credit Union National Association www.training.cuna.org
135	Certified Management Accountant (CMA)	INSMA002	To establish management accounting as a recognized profession by identifying the role of the management accountant and financial manager, the underlying body of knowledge, and a course of study by which such knowledge is acquired.	Part 1: Business Analysis Three hours, 110 multiple choice questions; Part 2: Management Accounting and Reporting Four hours, 140 multiple choice questions; Part 3: Strategic Management Three hours, 110 multiple choice questions; and Part 4: Business Applications Three hours, 3-7 written-response essays and problems.	Institute of Management Accountants www.imanet.org
136	Certified Manager of Community Associations (CMCA)	NCCAM001	The Certified Manager of Community Associations (CMCA) is the only national certification program designed exclusively for managers of homeowner and condominium associations and cooperatives. The CMCA recognizes individuals who have demonstrated the fundamental knowledge required to manage community associations.	Complete and pass Community Associations Institute's Professional Management Development Program (PMDP) course, M-100: The Essentials of Community Association Management. It's available as a 2 1/2 day seminar, an online course, or a home-study course. Successfully pass the CMCA Examination.	National Board of Certification for Community Association Managers www.nbccam.org

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137	Certified Manufacturing Technologist (CMfgT)	MESME001	This two-volume course will help an individual to prepare for the CMfgE exam at their own pace and convenience. Volume One will introduce an individual to material removal processes: all about turning operations, drilling, milling, and tool life, cost estimating: elements, standards, and optimum cutting speeds and feeds, capacity analysis: workstation and machine utilization, identifying bottlenecks, line balancing: precedence diagram, weight positional approach, and largest set rule, and molding and casting processes. In Volume Two, an individual will learn about metal forming processes: blanking forces and blank sizes, inventory management and scheduling: EOQ, ABC analysis, and master production schedules, as well as evaluating production, schedules, critical ratios, and push vs. pull systems.	Earning the CMfgT demonstrates an individual's competence in the fundamentals of manufacturing. It requires a minimum of four years combined manufacturing-related education and/or work experience. The CMfgT exam takes three hours and consists of 130 multiple choice questions covering subjects including math, applied science, design, materials, manufacturing processes, manufacturing management, manufacturing economics, quality control, computer applications, and automation.	Manufacturing Engineering Certification Institute of the Society of Manufacturing Engineers www.sme.org
138	Certified Master Firefighter (C.M.F.)	AAAEX002	Aircraft Rescue & Firefighting (ARFF) Certification Program enhances the professionalism of airport firefighters at all levels and at every airport. The FAA requires airport firefighters meet and maintain minimum standards. This voluntary, self-study certification program is intended to supplement existing state and local training programs.	C.M.F. candidates must have eight (8) years of continuous ARFF experience at an airport, a four-year college degree or a combination of both. Military service and college degree counts on a two-for-one basis. Candidate with a 4-year degree must also have 6 years of ARFF experience. To receive certification candidate must pass the written examination, research paper and oral presentation approved by the ARFF Review Board.	American Association of Airport Executives www.aaae.org/products/220_Training_Certifications
139	Certified Medical Administrative Assistant	NATHA003	Patient's medical record and office management skills; Appointment/scheduling/ correspondence; and Mail management skills.	An individual must meet one of the following criteria listed below: Have either a High School Diploma, and recently successfully completed an NHA approved training program; or have either a High School Diploma, or equivalency, and have recently worked in the field of certification for a minimum of one year. A CMAA examination is required.	National Healthcareer Association www.nhanow.com
140	Certified Medical Administrative Specialist	AMEDT001	This certification is for medical administrative specialists who serve a key role in medical office, clinic and hospital settings. This multi-skilled practitioner is competent in medical records management, insurance processing, coding and billing, management of practice finances, information processing, and fundamental office management tasks. A medical administrative specialist is very familiar with clinical and technical concepts required to coordinate administrative office functions in the healthcare setting.	The program must include a minimum of 720 clock-hours (or equivalent) of training in medical office administrative skills (including a practical externship). Training program must have been structured to include at least the following content areas: 1) medical records management, 2) health care insurance processing, coding and billing, 3) office financial responsibilities, and 4) information processing. All applicants must take and pass the AMT certification examination for Certified Medical Administrative Specialist (CMAS).	American Medical Technologists (AMT) www.amt1.com
141	Certified Medical Assistant (CMA)	AMAMA001	Allied health professionals who work primarily in ambulatory settings (clinics and medical offices) under the supervision of physicians. CMAs are capable of doing both clinical and administrative procedures, and are educated and tested in such procedures.	To earn the CMA credential an individual must first enroll in, and graduate from, a CAAHEP or ABHES accredited medical assisting program. An individual will attain academic and clinical training in a variety of areas, and must complete an externship which is part of the program. Upon graduation from the program an individual must take, and pass, the AAMA CMA Certification Examination.	American Association of Medical Assistants (AAMA) www.aama-ntl.org

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142	Certified Medical Transcriptionist	AFHDI001	The purpose in promoting this credential is to protect the public interest by promoting high professional and ethical standards, improving the practice of medical transcription, and recognizing those professionals who demonstrate their competency in medical transcription through the fulfillment of stated requirements.	Two years of transcription experience in the acute care (or equivalent) setting is required to take the CMT certification examination. The AHDI CMT Exam consists of both medical transcription-related knowledge items and transcription performance items. The American Association for Medical Transcription (AAMT) awards the voluntary designation Certified Medical Transcriptionist (CMT), to those who earn a passing score on a certification examination.	The Association for Healthcare Documentation Integrity (AHDI) www.ahdionline.org
143	Certified Nurse in the Operating Room (CNOR) Certification	CCINS001	Identify registered nurses who have demonstrated professional achievement in providing surgical nursing care.	Be currently licensed, without provision or condition, as a registered nurse in the country where currently practicing surgical nursing; two years and 2400 hours of surgical practice as a registered nurse in an administrative, teaching, research, or general staff capacity, either full- or part-time; and be currently employed in surgical nursing, either full- or part-time, at the time of application.	Competency and Credentialing Institute (CCI) www.certboard.org
144	Certified Nursing Assistant	FDMQA002	The Nursing Assistance test measures an individual's knowledge of the core skills required of nursing assistants. Designed for all health care support professionals, this test covers the following topics: Basic Emergency Care, Basic Human Needs and Communication, Body Systems, Body Systems Disorders, Infection and Infection Control, Mental Health, Nutrition, Patient Care and Comfort, Role and Responsibility, and Vital Signs.	Candidates must pass the ExperiCNA Exam which is a two part examination, consisting of a written and a performance (skills) section. The Written Test is a two-hour test with fifty (50) multiple-choice questions written in English. The Manual Skills Evaluation requires the applicant to perform five (5) randomly selected nursing assistant skills. A state-approved training program is not required prior to examination; however, it is strongly recommended. A high school diploma or its equivalent, or be 18 years of age, is required if the applicant is challenging the exam without completion of an approved training program. Nursing assistants certified out-of-state wishing to transfer their certification to Florida may apply for reciprocity.	Florida Department of Health, Division of Medical Quality Assurance www.doh.state.fl.us
145	Certified Operations Manager	CCIAC001	The CIAC-Certified Operations Manager designation is applicable to professionals who are responsible for day-to-day, operational management of a contact center. Job role responsibilities include: tactical management of the contact center, managing staff, assessing technology needs, overseeing technology purchase and implementation, and administering the center's budget.	Eligibility for CIAC Certification as an Operations Manager requires current employment in a contact center with a minimum of one to three years experience in an operational management role. Requirements: four knowledge assessments; a work product; a "360" on the job review; and a passing score of 75% is required on each knowledge assessment.	Call Center Industry Advisory Council (CIAC) www.ciac-cert.org
146	Certified Plant Supervisor (CPS)	AFENG001	Associates for Facilities Engineering (AFE) provides certification, technical information and relevant resources for plant and facility operations and maintenance professionals worldwide. The CPS (Certified Plant Supervisor) review program has been designed for the supervisory professional.	Each of the course instructors will review effective communication skills, how to empower employees and how to enable them to develop the confidence to overcome the daily challenges they face. The program includes interactive sessions with a four hour final exam, through sample questions with instructors.	Associates for Facilities Engineering www.afe.org

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147	Certified Professional Coder - Hospital (CPC-H)	ACOPC003	A Certified Professional Coder-Hospital (CPC-H) is an individual who in addition to on the job experience as a medical coder has achieved a measurable level of knowledge and expertise in coding of services, procedures and diagnoses for outpatient facilities.	A CPC-H must have at least two years of medical coding experience and maintain yearly renewal as well as submit Continuing Education Units (CEUs) every two years. Pass a 150 multiple choice question examination designed to evaluate a hospital outpatient coder's knowledge of: Medical Concepts, Code Assignment ICD-9-CM, CPT, HCPCS, and Coding Applications. Apprentice designations are awarded until work experience requirements are met; once these work experience requirements are met the apprentice designation "falls off".	American Academy of Professional Coders (AAPC) www.aapc.com/certification/index.aspx
148	Certified Professional Estimator (CPE)	AMSPE001	The American Society of Professional Estimators (ASPE) has been certifying construction estimators since 1976. While there are other certification programs in the construction industry, the ASPE program is the only one that tests the construction estimator's construction knowledge and estimating skills.	The process requires the candidate to write a 2500 word technical paper, in addition to taking two examinations. The first exam is a General Knowledge Exam (GKE) consisting of over 500 questions across a broad variety of construction topics. The second test is the Discipline Specific Test (DST). These exams are a test of the candidate's specific area of expertise.	American Society of Professional Estimators www.aspenational.com
149	Certified Professional in Financial Services (CPFS)	LOMAS002	Life Office Management Association (LOMA) created the Certified Professional in Financial Services (CPFS) education program to increase professionalism in the various fields of financial services: banking, insurance, securities, financial planning and more.	Four Required Courses: LOMA 305 - Personal Financial Planning LOMA 326 - Financial Services Marketing LOMA 356 - Investment Principles and Institutional Investing CPFS 100 - Financial Planning Negotiation Skills Program After each course an individual must take a 75 question, three hour exam.	Life Office Management Association (LOMA) www.loma.org
150	Certified Professional Public Buyer (CPPB)	UPPCC001	Obtaining a Certified Professional Public Buyer (CPPB) designation demonstrates a standard of competency in the public purchasing profession. A CPPB designation indicates to the public that, having mastered a body of knowledge, one can make sound decisions that reflect maximum value for the taxpayer's dollar.	High School Diploma or GED; 96 contact hours in purchasing seminars/courses; and five years total purchasing experience which must include three years of public purchasing experience. An individual is also eligible with an Associate's degree; 96 contact hours in purchasing seminars/courses; and four years total purchasing experience which must include three years of public purchasing experience. A written examination and oral examination is required (the oral examinations are administered by a three member panel).	Universal Public Purchasing Certification Council www.uppcc.org
151	Certified Professional Secretary (CPS)	IAOAP002	The outline for CPS certification is Office Systems and Technology, Office Administration, and Management.	An applicant with a bachelor's degree needs two years administrative experience. An applicant with an associate degree needs three years administrative experience. An applicant with no college degree needs four years administrative experience. CPS exam applicants may apply prior to having all experience/education complete, as long as they are currently working in an administrative position, or are a full-time student in a degree granting program. Plan to spend 8-10 hours per week dedicated to intensive study of each area. Candidates may need 3-6 hours of course work at community college level in the areas covered on Parts 1-3 of the CPS exam.	International Association of Administrative Professionals (IAAP) www.iaap-hq.org
152	Certified Purchasing Professional (CPP)	APSOC001	The Certified Purchasing Professional (CPP) Certification is for professionals who have demonstrated the skills to successfully implement improved purchasing and supply chain practices as part of a business solution in an organization.	All CPP applicants are required to take and complete the self-running online course "Business Ethics for Buyers and Sellers." A review of their academic achievements, experience and contributions to the purchasing profession is made to award points in each of these categories. A minimum total of 100 points is required for the Certified Purchasing Professional classification. In addition, a three hour written exam is required.	American Purchasing Society www.american-purchasing.com

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153	Certified Registered Nurse First Assistant (CRNFA)	CCINS002	CRNFA certification is defined as the documented validation of the professional achievement of identified standards of practice by an individual registered nurse first assistant providing care for patients before, during, and after surgery.	Requirements include: Certified Nurse in the Operating Room (CNOR) Certification; a BSN or an MSN degree and a copy of the diploma must accompany the application; 2,000 hours (first assisting); and completion of an acceptable formal RNFA program.	Competency and Credentialing Institute (CCI) www.certboard.org
154	Certified Respiratory Therapist (CRT)	NBFRC001	Respiratory therapists and respiratory therapy technician, also known as respiratory care practitioners, evaluate, treat, and care for patients with breathing or other cardiopulmonary disorders. Practicing under the direction of a physician, respiratory therapists assume primary responsibility for all respiratory care therapeutic treatments and diagnostic procedures, including the supervision of respiratory therapy technicians. Respiratory therapy technicians follow specific, well-defined respiratory care procedures under the direction of respiratory therapists and physicians.	The Entry Level CRT Examination is designed to objectively measure essential knowledge, skills and abilities required of entry level respiratory therapists. The examination consists of 160 multiple-choice questions (140 scored items and 20 pretest items) distributed among three major content areas: clinical data, equipment and therapeutic procedures. An associate's degree is required for entry into the field. Most programs award associate's or bachelor's degrees and prepare graduates for jobs as advanced respiratory therapists.	National Board for Respiratory Care www.nbrc.org
155	Certified Securities Processing Specialist (CSPS)	SECOF001	Securities and commodities sales agents, also called brokers, stockbrokers, registered representatives, account executives, or financial consultants, perform a variety of tasks, depending on their specific job duties. Most securities and commodities sales agents serve individual investors; others specialize in institutional investors, such as banks and pension funds. In institutional investing, sales agents usually concentrate on a specific financial product, such as stocks, bonds, options, annuities, or commodity futures.	Core course credits: 42 Concentration course credits; two years in the Securities Industry; Core Securities Operations Exam (Specialist) Exam for Selected Concentration; and one recommendation from an industry professional senior to the candidate.	Securities Operations Forum www.soforum.com
156	Certified Software Development Professional (CSDP)	IOEEE001	The CSDP program is the sole brand name professional credential in software development. The program is intended for mid-level software development and software engineering professionals.	Professional certification has three critical components: Exam-based testing demonstrating mastery of a Body of Knowledge (BOK). Extensive experience base in the performance of the work or profession being certified; and Continuing professional education, measured and relevant to the BOK.	Institute of Electrical and Electronics Engineers (IEEE) Computer Society www.computer.org
157	Certified Solidworks Associate (CSWA)	SOLID001	Solidworks certifications can be used as a benchmark to measure a person's knowledge and competency with Solidwork mechanical design software. A Certified Solidworks Associate (CSWA) will stand out from the crowd in today's competitive job market. CSWA certification is proof Solidworks expertise and cutting-edge skills that businesses seek out and reward.	Candidates must take a 3 hour exam and have a minimum passing grade of 70% in the areas of: sketch entities; sketch tools; sketch relations; boss and cut features; fillets and chamfers; linear, circular and fill patterns; dimensions; feature conditions - start and end; mass properties; materials; inserting components; standard mates; reference geometry; drawing sheets and views; dimensions and model items; annotations; and COSMOXpress.	Dassault Systemes Solidworks Corporation www.solidworks.com/pages/services/Training/Training.html
158	Certified Solidworks Professional (CSWP)	SOLID002	A Certified Solidworks Professional is an individual that has successfully passed the advanced skills examination. Each CSWP has proven their ability to design and analyze parametric parts and moveable assemblies using a variety of complex features in Solidworks.	Candidates must take a 3 hour exam and have a minimum passing grade of 75% in the areas of Mechanical Design and Design Validation.	Dassault Systemes Solidworks Corporation www.solidworks.com/pages/services/Training/Training.html

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159	Certified Surgical Technologist (CST)	NBOST001	Certification provides evidence to employers, colleagues in the field and the general public that certified surgical technologists and first assistants meet national standards. The choice to become certified demonstrates pride in the profession and a desire to be recognized for mastery of skills unique to surgical technology, as well as an on-going commitment to quality patient care.	Must be a graduate of a surgical technology program accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) or Accrediting Bureau of Health Education Schools (ABHES) (programs usually take approx. one year to complete). A CST examination is required.	The National Board of Surgical Technology and Surgical Assisting (NBSTSA) www.lcc-st.org
160	Certified Survey Technician (CST)	ACOSM001	This four-level certification program for surveying technicians throughout the United States indicates official recognition by The American Congress on Surveying and Mapping - National Society of Professional Surveyors (NSPS-ACSM) that a person has demonstrated that he or she is minimally competent to perform surveying tasks at a specified technical level.	The CST training program is 12-15 wks. Level I requires a four hour exam; Level II requires 3,000 hrs of surveying experience (1.5 years) and a six hour exam; Level III- 7,000 hrs (3.5 years) of surveying experience and a six hour exam; Level IV - 11,000 hrs (5.5 years) of surveying experience and a final essay exam.	American Congress on Surveying and Mapping - National Society of Professional Surveyors www.nspsmo.org
161	Certified Temporary-Staffing Specialist (CTS)	NAOPS001	Since 1961, the National Association of Personnel Services has been certifying recruiting and staffing professionals nationally. Today, there are more than 10,000 professionals designated as Certified Personnel Consultants (CPC) or Certified Temporary-Staffing Specialists (CTS). Over 300 professionals are dually certified, a trend that continues to grow as the market and demand dictates more blended capabilities.	CTS candidates should be experienced in temporary staffing. Position experience includes: owner, partner, manager or staffing professional working full time in a temporary service business. The CTS examination is required.	National Association of Personnel Services www.recruitinglife.com/EduCert/qualify.cfm
162	Certified Transportation Professional	PFMIN001	By earning the Certified Transportation Professional (CTP) designation, an individual must join a group of transportation professionals who have made a commitment to the private fleet industry, to an ongoing pursuit of career advancement, and to continuing enhancement of their knowledge and skills.	An individual must have a minimum of five years of experience in fleet/transportation management to be deemed eligible to sit for the CTP Examination. This would include positions such as fleet manager, operations manager, safety manager, dispatcher, driver trainer, transportation manager, logistics manager, distribution manager, sales executive, leasing professional, and/or account representative.	Private Fleet Management Institute - National Private Truck Council www.nptc.org
163	Certified Veterinary Assistant (CVA)	ANICT001	Veterinary Assistant Training is designed to familiarize new assistants and other hospital staff with the myriad of procedures performed daily in the animal hospital. Level One will educate veterinarian assistants in the essential skills and knowledge needed to become effective contributors to the veterinary medical care team. Level Two benefits specialty practice from the reception desk to the patient care technicians. It will help veterinary professionals fulfill their career goals at their own pace, while enhancing the ability of the practice to care for patients and communicate with clients.	This CVA course of study blends four essential elements into a program that leads the certification as a veterinary assistant: Online Curriculum - 10 units comprised of approximately 100 veterinary videos and Power Point presentations; Work Experience - A 90-day (500 hours) working apprenticeship in the veterinary hospital of your choice; Practical Skills - The CVA student must demonstrate numerous hands-on skills for their supervisor; and a CVA Final Exam. 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.	Animal Care Technologies www.4act.com
164	Certified Welder	AWELD001	The Certified Welder program is a performance-based program with no prerequisite courses or certifications required. The Certified Welder (CW) program test to procedures used in the structural steel, petroleum pipelines, sheet metal and chemical refinery welding industries.	Pass the required performance based certification examination. An individual must deposit a sound weld that will be inspected by an AWS Certified Welding Inspector (CWI).	American Welding Society www.aws.org

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165	Certified Wireless Network Administrator (CWNA)	CWNPT001	CWNA is the foundation-level wireless LAN (Local Area Network) certification for the industry-standard Program. It is the starting point for wireless training and certification. CWNA covers a broad range of wireless LAN topics focused on 802.11 wireless technology rather than vendor-specific products.	Individuals must attend the Wireless Networking I class (five day course); pass the CWNA Certification Exam (PW0-100) of 60 multiple-choice questions; and a score of at least 70 percent is required to pass the exam.	CWNP (Wireless Network Training) www.cwnp.com
166	Chief Architect User Certification	CARCH001	The Certification program is designed to provide an achievement process for demonstrating competency in using Chief Architect software. Certification is available to Professional Designers, Academic Instructors and Students.	The User Certification Exam is a 4-hour proctored exam consisting of hands-on use of the program with fill-in-the-blank questions developed from over 20 competency areas. Available to students enrolled in drafting, design and architectural programs with at least six (6) relevant credit hours. Users issued certification upon successfully passing the exam.	Chief Architect, Inc www.chiefarchitect.com
167	Child Development Associate (CDA)	CPREC001	The purpose of this program is to prepare students for employment as child development center teachers, early intervention associates, child development center curriculum coordinators, infant/toddler teachers, preschool teachers, providers of care in school age programs, providers of care for children with disabling conditions, family day care providers, home visitors, child development center managers, or to provide supplementary training for persons previously or currently employed in these occupations.	Candidates seeking to apply for CDA assessment in any of the three settings (center based, family child care, and home visitor) must meet the following eligibility requirements: Be 18 years of age or older; hold a high school diploma or GED; have 480 hours of experience working with children within the past five years; and have 120 clock hours of formal child care education within the past five years. Candidates applying for a Bilingual Endorsement must meet the above requirements and be able to speak, read, and write well enough in both English and another language to understand and be understood by both children and adults.	Council for Professional Recognition www.cdacouncil.org
168	Cisco Certified Entry Network Technician (CCENT)	CISCO003	CCENT has been created to address the need for networking professionals with a solid practical understanding of modern TCP/IP networks built with Cisco hardware, and will certify practical skills required for entry-level network support positions.	Achieving this certification is as easy as attending a single course, a comprehensive five-day Authorized Cisco course, to develop a practical understanding of the operation of modern TCP/IP networks built with Cisco hardware. Students who attend the new ICND1 course and pass the related exam, will be awarded the new CCENT certification.	Cisco Systems, Inc. Www.cisco.com
169	Cisco Certified Design Professional (CCDP)	CISCO002	The CCDP certification indicates advanced journeyman knowledge of intelligent network design concepts and principles. A CCDP credentialed network professional can discuss, design, and create advanced addressing and routing, security, network management, data center, and IP multicast complex multi-layered enterprise architectures that include virtual private networking and wireless domains.	Three required exams: 642-901 BSCI and 642-812 BCMSN; and 642-873 ARCH or 642-871 ARCH. Recommended Training: Building Scalable Cisco Internetworks (BSCI); Building Cisco Multilayer Switched Networks (BCMSN); Designing Cisco Network Service Architecture (ARCH); and Designing Cisco Network Service Architectures (ARC).	Cisco Systems, Inc. Www.cisco.com
170	Cisco Certified Network Associate (CCNA)	CISCO004	The Cisco CCNA network associate certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites.	Cisco Certified Network Associate Exam- 90 min. Candidates can prepare for this exam by taking the Interconnecting Cisco Networking Devices Part 1 (ICND1) v1.0 and the Interconnecting Cisco Networking Devices Part 2 (ICND2) v1.0 courses.	Cisco Systems, Inc. Www.cisco.com

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171	Cisco Certified Network Professional (CCNP)	CISCO005	Indicates advanced or journeyman knowledge of networks. With a CCNP, a network professional can install, configure, and troubleshoot local and wide area networks for enterprise organizations with networks from 100 to more than 500 nodes. The content emphasizes topics such as security, converged networks, quality of service (QoS), virtual private networks (VPN) and broadband technologies.	Four required exams- 642-901 BSCI, 642-812 BCMSN, 642-825 ISCW, 642-845 ONT; Recommended Training- Building Scalable Cisco Internetworks, Building Cisco Multilayer Switched Networks, Implementing Secure Converged Wide Area Networks, and Optimizing Converged Cisco Networks.	Cisco Systems, Inc. Www.cisco.com
172	CompTIA A+ certification	COMPT001	CompTIA A+ confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking.	Must pass two exams: A+ Essentials exam and the Comptia 602 exam.	Computing Technology Industry Association (CompTIA) www.comptia.org
173	CompTIA CDIA+ Certification	COMPT002	The CompTIA Certified Document Imaging Architech (CDIA+) credential validates the knowledge of professionals who deliver document imaging solutions. It is a vendor-neutral certification that proves expertise in the technologies and best practices used to plan, design, and specify a document imaging, management system.	Must pass the CompTIA A+ exam- 85 question exam; 90 minutes.	Computing Technology Industry Association (CompTIA) www.comptia.org
174	CompTIA Linux+	COMPT005	Earning a CompTIA Linux+ certification proves that a candidate can explain fundamental open source resources/licenses, demonstrate knowledge of user administration, understand file permissions/software configurations and manage local storage devices and network protocols.	Individuals with a minimum of six to 12 months of practical Linux experience are eligible for the CompTIA Linux+ certification. The certification exam is 90 minutes and 98 questions. The minimum passing score is 675 on a scale of 100-900.	Computing Technology Industry Association (CompTIA) www.comptia.org
175	CompTIA Network+ Certification	COMPT006	It is an international, vendor-neutral certification that recognizes a technician's ability to describe the features and functions of networking components and to install, configure and troubleshoot basic networking hardware, protocols and services.	Network+ Certification Exam- 90 minutes, 85 questions; nine months networking experience recommended, but not required. (CompTIA Network+ certified professionals who want to diversify their base knowledge in other areas should also consider pursuing CompTIA Security+, Server+ or Convergence+).	Computing Technology Industry Association (CompTIA) www.comptia.org
176	CompTIA Security +	COMPT008	Earning a CompTIA Security+ certification demonstrates proof of knowledge and expertise in security topics, such as communication security, infrastructure security, cryptography, access control, authentication, external attack and operational and organization security.	It is recommended that CompTIA Security+ candidates have at least two years of on-the-job technical networking experience, with an emphasis on security along with the CompTIA Network+ certification. The certification exam is 90 minutes and 100 questions. The minimum passing score is 750 on a scale of 100-900.	Computing Technology Industry Association (CompTIA) www.comptia.org
177	CompTIA Server+ Certification	COMPT009	CompTIA Server+ validates the knowledge and skills of advanced IT technicians. CompTIA Server+ certifies technical knowledge in areas such as RAID, SCSI and multiple CPUs, as well as capabilities with server issues, including disaster recovery.	Although not a prerequisite, it is recommended that CompTIA Server+ candidates hold a CompTIA A+ certification; for individuals with 18-24 months of experience with Industry Standard Server Architecture (ISSA) technology. CompTIA Server+ Exam- 80 questions, 90 minutes.	Computing Technology Industry Association (CompTIA) www.comptia.org

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178	Concrete Flatwork Finisher/Technician (ACI Craftsman Certification Program)	AMCII001	A Concrete Flatwork Finisher/Technician is a craftsman who has demonstrated the ability to place, consolidate, finish, edge, joint, cure and protect concrete flatwork.	ACI will grant certification only to those applicants who obtain a passing grade on the written examination, and possess one year (1500 hours) of approved work experience and successfully complete the ACI performance examination. The examiner will observe and evaluate the techniques used and record passing or failing grades on the various individual procedures (this is the performance part of the exam).	American Concrete Institute International (ACI) www.aci-int.org
179	Concrete Strength Testing Technician (CSTT)	AMCII002	A Concrete Strength Testing Technician is an individual who has demonstrated the knowledge and ability to properly perform, record, and report the results of four basic ASTM laboratory procedures related to the determination of concrete compressive and flexural strength.	American Concrete Institute International (ACI) will grant certification only to those applicants who meet both of the following requirements: a passing grade on the ACI written examination; and successful completion of the ACI performance examination. The one-hour written examination is "closed book" and consists of approximately 40 multiple choice questions. There are at least eight questions on each of the ASTM Standards. To pass the written examination, both of the following conditions must be met: at least 60 percent correct for each of the required standards; and a minimum score of 70 percent overall. The performance examination is also "closed book" and requires actual demonstration of the required ASTM Standards. The examinee is judged on his/her ability to correctly perform or describe all of the required procedures for each standard.	American Concrete Institute International www.aci-int.org
180	Dental Hygienist	FLSBD001	Dental Hygienists are licensed and trained to provide the following services: patient screening procedures; such as assessment of oral health conditions, review of the health history, oral cancer screening, head and neck inspection, dental charting and taking blood pressure and pulse; taking and developing dental radiographs (x-rays); removing calculus and plaque (hard and soft deposits) from all surfaces of the teeth; applying preventive materials to the teeth (e.g., sealants and fluorides); teaching patients appropriate oral hygiene strategies to maintain oral health; counseling patients about good nutrition and its impact on oral health; making impressions of patients' teeth for study casts; and performing documentation and office management activities.	Dental hygienists are licensed by each state to provide dental hygiene care and patient education. Almost all states require that dental hygienists be graduates of commission-accredited dental hygiene education programs (the majority of community college programs take at least two years to complete, with graduates receiving associate degrees) to be eligible for state licensure. Almost all states also require candidates for licensure to obtain a passing score on the National Board Dental Hygiene Examination (a comprehensive written examination) in addition to passing the state-authorized licensure examination consisting of: a written examination on the laws and rules of the state regulating the practice of dental hygiene; and a practical or clinical examination, which shall be administered and graded by dentists and dental hygienists licensed in this state and employed by the department for just such purpose.	Florida State Board of Dentistry www.doh.state.fl.us
181	Electrical Principles: Residential Construction Academy Examination	HBINS001	Examination of skills and knowledge covered in the course materials, "Residential Construction Academy: Electrical Principles," Thomson Delmar Learning in Partnership with the Home Builders Institute.	Pass an online assessment that measures important topics that residential electricians need. The examination covers the following areas: basic electricity and electrical theory; safety; electrical quantities and Ohm's Law; resistors; series, parallel and combination circuits; measuring instruments; using wire tables and determining conductor sizes; alternating current; magnetic induction; inductance in alternating current schedules; resistance-inductive series circuits; resistive-inductive parallel circuits; capacitors; single-phase transformers; and single-phase motors. Choose one of the following: Electricity I, II, III 8533/8534/8535 or Building Trades I, II, III 8515/8516/8517.	Home Builders Institute www.hbi.org

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182	Electronics Systems Associate (ESA)	ISCET002	Open to anyone interested in electronics, including a technician or student. The ESA covers DC, AC, Semi and Digital in 4 parts. Certificates are awarded for passing each of the 4 parts. Once all 4 certificates are earned the Associate Certified Electronics Technician (CET) is awarded. The ESA program offers advantages to the student and the instructors that the Associate level CET program does not offer. ESA certificates are issued for life, but are subject to the Registration requirements.	Certificates are awarded for passing each exam of the 4 parts of the ESA program, DC, AC, Semi-conductor and Digital.	International Society of Certified Electronics Technicians http://www.iscet.org/certification/index.html
183	Emergency Medical Technician - Basic (EMT)	NREMT001	The Emergency Medical Technician - Basic (EMT) certification is constructed to ensure that each candidate obtain knowledge from six major categories: Airway & Breathing, Cardiology, Medical, Trauma, OB/Gyn/Peds, and Operations.	Applicants must be 18 years of age or older; must successfully complete, within the last two (2) years, a state-approved National Standard EMT-Basic education program, as developed by the U.S. Department of Transportation; successfully complete (within the past twelve months) all sections of a state-approved EMT-Basic practical examination that equals or exceeds the established criteria of the National Registry; and possess a current CPR Credential at the healthcare provider or equivalent level. The EMT-Basic Cognitive Examination is required- 120 questions; two hours in length.	National Registry of Emergency Medical Technicians http://www.nremt.org/EMTServices/reg_1st_history.asp
184	FAA A & P General Exam (Aviation Mechanic General, A&P)	FEDAA002	A certificated mechanic may perform or supervise the maintenance, preventive maintenance or alteration of an aircraft but excluding major repairs to and alterations of propellers and/or instruments.	To be eligible for a mechanic certificate a person must be: at least 18 years of age; able to read, write, and speak English; 18 months practical experience with either airframes or power plants, or 30 months of practical experience working on both at the same time or have graduated from an FAA-Approved Aviation Maintenance Technical School; and meet any other requirements as outlined in the appropriate sections of Title 14 of the Code of Federal Regulations (14 CFR part 65) and pass the FAA airman knowledge tests with a minimum passing score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides
185	FAA Advanced Ground Instructor	FEDAA014	A certified advanced ground instructor is authorized to provide ground training, flight reviews, and recommendations for knowledge tests in the aeronautical knowledge area required for the issuance of a commercial pilot, airline transport pilot, sport pilot, recreational pilot, or private pilot certificate.	To be eligible for ground instructor certificate: be at least 18 years of age; able to read, write, speak, and understand English; and meet any other requirements as outlined in the appropriate sections of 14 CFR part 61. Pass knowledge tests on the fundamentals of instructing and a flight or ground instructor knowledge test specific to the instructor rating sought with a minimum score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides
186	FAA Aircraft Dispatcher	FEDAA019	An aircraft dispatcher is authorized to exercise responsibility with the pilot in command in the operational control of a flight. This includes authority over initiating, conducting, or terminating company flights.	A person must be at least 21 years of age to be eligible to take the aircraft dispatcher knowledge test. For an aircraft dispatcher certificate a person must be at least 23 years of age; be able to read, speak, write, and understand English; meet any other requirements as outlined in the appropriate sections of 14 CFR part 65 as well as pass the required knowledge test and practical skills test. An applicant must present documented evidence that he or she has at least 2 years of experience within 3 years of the application date in one or any combination of the following areas: (1) military operations as a pilot; flight navigator; or meteorologist. (2) aircraft operations as an assistant in dispatching air carrier aircraft; pilot; flight engineer; or meteorologist. (3) aircraft operations as an air traffic controller; or flight service specialist. (4) aircraft operations performing duties that the Administrator finds provide equivalent experience or a statement of graduation showing that the person has successfully completed an approved aircraft dispatcher course.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides

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187	FAA Airframe Mechanic	FEDAA004	Airframe mechanics are authorized to work on any part of the aircraft except the instruments, power plants, and propellers. Combination airframe and powerplant mechanics—called A&P mechanics—work on all parts of the plane except the instruments. Most mechanics working on civilian aircraft today are A&P mechanics.	An individual can get the experience to become a certified power plant or airframe mechanic in one of three ways: attend one of the 170 Federal Aviation Regulations (FAR) part 147 Aviation Maintenance Technician Schools nationwide (12 months and 24 months); work an FAA Repair Station or FBO under the supervision of a certified mechanic for 18 months for each certificate, or 30 months for both; or join one of the armed services and get training and experience in aircraft maintenance. An individual must take oral and practical tests as well as written tests. A Designated Mechanic Examiner gives the oral and practical test. The oral and practical tests cover 43 technical subjects. Typically tests for one certificate- airframe or power plant- takes about 8 hours. There are separate tests for airframe and power plant mechanic certificates, as well as a general test covering both.	Federal Aviation Administration www.faa.gov/licenses_certificates
188	FAA Airline Transport Pilot (ATP)	FEDAA012	The Airline Transport Pilot License (ATP) is the highest level of aircraft pilot certification. Those certified as Airline Transport Pilots are authorized to act as pilot-in-command of an aircraft in air carrier service in aircraft with a maximum gross weight over 12,500 pounds.	Be at least 23 years of age and have a minimum of 1500 hours of flight experience; Be able to read, speak, write, and understand the English language; Be of good moral character; Hold at least a commercial pilot certificate and an instrument rating; or meet the military experience requirements under §61.73 (Federal Aviation Regulations) to qualify for a commercial pilot certificate, and an instrument rating if the person is a rated military pilot or former rated military pilot of an Armed Force of the United States; or hold either a foreign airline transport pilot or foreign commercial pilot license and an instrument rating, without limitations, issued by a contracting State to the Convention on International Civil Aviation. Meet the aeronautical experience requirements that apply to the aircraft category and class rating sought before applying for the practical test; Pass a knowledge test on the aeronautical knowledge areas of §61.155(c) (Federal Aviation Regulations) that apply to the aircraft category and class rating sought; Pass the practical test on the areas of operation listed in §61.157(e) that apply to the aircraft category and class rating sought; and Comply with the sections that apply to the aircraft category and class rating sought.	Federal Aviation Administration www.faa.gov/licenses_certificates
189	FAA Basic Ground Instructor	FEDAA015	A certified basic ground instructor is authorized to provide ground training, flight reviews, and recommendations for knowledge tests in the aeronautical knowledge area required for the issuance of a sport pilot, recreational pilot, or private pilot certificate.	To be eligible for ground instructor certificate: be at least 18 years of age; able to read, write, speak, and understand English; and meet any other requirements as outlined in the appropriate sections of 14 CFR part 61. Pass knowledge tests on the fundamentals of instructing and a flight or ground instructor knowledge test specific to the instructor rating sought with a minimum score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides
190	FAA Certified Flight Instructor	FEDAA005	A certified flight instructor is authorized within the limitations of the flight instructor certificate and ratings to give training and endorsements required and relate to: student pilot certificate; pilot certificate; flight instructor certificate; ground instructor certificate; aircraft rating; instrument rating; flight review, operating privilege, or recency of experience requirement; practical test; and knowledge test.	To be eligible for ground instructor certificate: be at least 18 years of age; able to read, write, speak, and understand English; and meet any other requirements as outlined in the appropriate sections of 14 CFR part 61. Pass knowledge tests on the fundamentals of instructing and a flight or ground instructor knowledge test specific to the instructor rating sought with a minimum score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides

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191	FAA Certified Flight Instructor - Instrument	FEDAA016	A certified flight instructor is authorized within the limitations of the flight instructor certificate and ratings to give training and endorsements required and relate to: student pilot certificate; pilot certificate; flight instructor certificate; ground instructor certificate; aircraft rating; instrument rating; flight review, operating privilege, or recency of experience requirement; practical test and knowledge test.	To be eligible for ground instructor certificate: be at least 18 years of age; able to read, write, speak, and understand English; and meet any other requirements as outlined in the appropriate sections of 14 CFR part 61. Pass knowledge tests on the fundamentals of instructing and a flight or ground instructor knowledge test specific to the instructor rating sought with a minimum score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides
192	FAA Certified Multi-Engine Instructor	FEDAA017	A certified flight instructor is authorized within the limitations of the flight instructor certificate and ratings to give training and endorsements required and relate to: student pilot certificate; pilot certificate; flight instructor certificate; ground instructor certificate; aircraft rating; instrument rating; flight review, operating privilege, or recency of experience requirement; practical test; and knowledge test.	To be eligible for ground instructor certificate: be at least 18 years of age; able to read, write, speak, and understand English; and meet any other requirements as outlined in the appropriate sections of 14 CFR part 61. Pass knowledge tests on the fundamentals of instructing and a flight or ground instructor knowledge test specific to the instructor rating sought with a minimum score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides
193	FAA Commercial Pilot	FEDAA006	A commercial pilot specializes in dusting crops, spreading seed for reforestation, testing aircraft, flying passengers and cargo to areas not served by regular airlines, directing firefighting efforts, tracking criminals, monitoring traffic, and rescuing and evacuating injured persons.	Be at least 18 years of age and have at least 250 hours of flight experience; Be able to read, speak, write, and understand the English language; Receive a logbook endorsement from an authorized instructor; Pass the required knowledge test on the aeronautical knowledge areas; Receive the required training from an authorized instructor; Meet the aeronautical experience requirements that apply to the aircraft category and class rating sought before applying for the practical test; Pass the required practical test on the areas of operation that apply to the aircraft category and class rating sought; Hold at least a private pilot certificate issued under this part or meet the requirements of §61.73 (Federal Aviation Regulations); and Comply with the sections that apply to the aircraft category and class rating sought.	Federal Aviation Administration www.faa.gov/licenses_certificates
194	FAA Control Tower Operator	FEDAA018	An air traffic control tower operator shall perform duties in accordance with the limitations of his certification and the procedures and practices prescribed in air traffic control manuals of the FAA to provide safe, orderly, and expeditious flow of air traffic.	To be eligible for an air traffic control tower operator certificate a person must: be at least 18 years of age; be of good moral character; be able to read, write, and understand English; hold at least a second-class medical certificate; and meet any other requirements as outlined in the appropriate sections of 14 CFR part 65. pass the knowledge requirements on a written test and skill requirements on a practical test.	Federal Aviation Administration www.faa.gov/education_research
195	FAA Ground School	FEDAA013	The ideal study program is enrollment in a formal ground school course. This offers the advantages of a professional instructor as well as facilities and training aids designed for pilot instruction. Many of these schools use audiovisual aids or programmed instruction materials to supplement classroom instruction. Ground school takes two basic forms: an instructor teaching a scheduled class or a self-paced, home-study program using video or audio tapes and/or a computer-based program.	A certificate of graduation from a pilot training course conducted by an FAA-approved pilot school, or a statement of accomplishment from the school certifying the satisfactory completion of the ground-school portion of such a course; A written statement from an FAA-certified ground or flight instructor, certifying that you have satisfactorily completed the required ground instruction. After ground school and before you can take your FAA checkride with a designated pilot examiner, you must take and pass (70 percent or better) an FAA airman knowledge test at an approved computer testing site.	Federal Aviation Administration www.faa.gov/licenses_certificates

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196	FAA Instrument Ground Instructor	FEDAA020	A certified instrument ground instructor is authorized to provide ground training in the aeronautical knowledge area required for the issuance of an instrument rating, instrument proficiency check, and recommendations for a knowledge test required for the issuance of an instrument rating.	Hold a current private pilot certificate with an airplane, helicopter, or power-lift rating; be able to speak, write, and understand English; receive and log ground training from an authorized instructor or complete a home-study course; receive logbook or training record endorsement from authorized instructor to take knowledge test and practical test; receive and log flight proficiency training. Must have logged at least 50 hours of cross-country flight time as pilot in command , with 10 hours in airplanes for an instrument-airplane rating; and 40 hours of actual or simulated instrument time. Meet any other requirements as outlined in the appropriate sections of 14 CFR part 61 and pass the required knowledge test with a minimum passing score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_guides
197	FAA Instrument Pilot	FEDAA007	A certified instrument pilot may operate a powered civil aircraft with a standard category U.S. airworthiness certificate in any operation that contains the instruments and equipment specified for that type of operation, and those instruments and items of equipment are in operable condition under instrument flight rules or in weather conditions less than the minimums prescribed for visual flight rules.	Hold a current private pilot certificate with an airplane, helicopter, or power-lift rating; be able to speak, write, and understand English; receive and log ground training from an authorized instructor or complete a home-study course; receive logbook or training record endorsement from authorized instructor to take knowledge test and practical test; receive and log flight proficiency training; and pass the required knowledge test on aeronautical knowledge areas and practical test on the areas of operation in flight proficiency. Must have logged at least 50 hours of cross-country flight time as pilot in command , with 10 hours in airplanes for an instrument-airplane rating; and 40 hours of actual or simulated instrument time. Meet any other requirements as outlined in the appropriate sections of 14 CFR part 61 and pass the required knowledge test with a minimum passing score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research
198	FAA Multi-Engine Pilot	FEDAA008	A certified multiengine pilot must be flight proficient on the areas of operation that apply to an airplane category rating with a multiengine class rating: preflight preparation; preflight procedures; airport and seaplane base operations; takeoffs, landings, and go-arounds; performance maneuvers; navigation; slow flight and stalls; emergency operations; multiengine operations; high-altitude operations; and postflight procedures.	A person who applies for a private pilot certificate with an airplane category and multiengine class rating must log at least 40 hours of flight time that includes at least 20 hours of flight training from an authorized instructor and 10 hours of solo flight training in the areas of operation and the training must include at least 3 hours of cross-country flight training in a multiengine airplane; 3 hours of night flight training; 3 hours of flight training in a multiengine airplane on the control and maneuvering of an airplane solely by reference to instruments; 3 hours of flight training in preparation for the practical test; and 10 hours of solo flight time in an airplane. Meet any other requirements as outlined in the appropriate sections of 14 CFR part 61 and pass the required knowledge test with a minimum passing score of 70 percent.	Federal Aviation Administration www.faa.gov/education_research/testing/airmen/test_standards/pilot
199	FAA Powerplant Mechanic	FEDAA010	Powerplant mechanics are authorized to work on engines and do limited work on propellers. Combination airframe and powerplant mechanics—called A&P mechanics—work on all parts of the plane except the instruments. Most mechanics working on civilian aircraft today are A&P mechanics.	An individual can get the experience to become a certified power plant or airframe mechanic in one of three ways: attend one of the 170 FAR part 147 Aviation Maintenance Technician Schools nationwide (12 months and 24 months); work an FAA Repair Station or FBO under the supervision of a certified mechanic for 18 months for each certificate, or 30 months for both; or join one of the armed services and get training and experience in aircraft maintenance. An individual must take oral and practical tests as well as written tests. A Designated Mechanic Examiner gives the oral and practical test. The oral and practical tests cover 43 technical subjects. Typically tests for one certificate- airframe or power plant- takes about 8 hours. There are separate tests for airframe and power plant mechanic certificates, as well as a general test covering both.	Federal Aviation Administration www.faa.gov/licenses_certificates

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200	FAA Private Pilot	FEDAA011	A Private Pilot Certificate, is a qualification that permits the holder to act as the pilot of an aircraft privately.	Prior to taking the Private pilot knowledge test an individual must present one of the following: A certificate of graduation from a pilot training course conducted by an FAA-approved pilot school, or a statement of accomplishment from the school certifying the satisfactory completion of the ground-school portion of such a course; A written statement from an FAA-certified ground or flight instructor, certifying that you have satisfactorily completed the required ground instruction; Logbook entries by an FAA- certified ground or flight instructor, certifying satisfactory completion of the required ground instruction; A certificate of graduation or statement of accomplishment from a ground school course conducted by an agency such as a high school, college, adult education program, the Civil Air Patrol, or an ROTC Flight Training Program; or A certificate of graduation from a home-study course developed by the aeronautical enterprise providing the study material. 14 CFR Part 61 section 105 references the requirements for the Private pilot knowledge test. Reference 14 CFR Part 61 subpart E, section 109.	Federal Aviation Administration www.faa.gov/licenses_certificates
201	Facilities Management Certificate (FMC)	BOAMI001	This program provides an overview of management information central to operating a facility. It also offers information needed to manage the ongoing operation and maintenance of building systems and to maximize building efficiency and cost-effectiveness. This program aims at commercial property management.	This certificate program requires three core courses: Design, Operation, and Maintenance of Building Systems (Part I); Design, Operation, and Maintenance of Building Systems (Part II); and Fundamentals of Facilities Management. An individual must complete an exam after each course and score at least a 70 percent.	BOMI International (Building Owners and Managers Institute) www.bomi.org
202	FCC Commercial Radio Operator License - Element 3 General Radiotelephone Operator License (PG)	FEDCC001	A General Radiotelephone Operator License (PG) is required to adjust, maintain, or repair FCC licensed radiotelephone transmitters in aviation, maritime, and international fixed public radio services.	To qualify, applicant must be: a legal resident of (or eligible for employment in) the U.S.; and be able to receive and transmit spoken messages in English; and pass a written and/or telegraphy examination(s). To receive a PG license applicants must pass written Elements 1 and 3. Element 1 covers basic radio law and operating practice with which every maritime radio operator should be familiar. An examinee must correctly answer at least 18 out of 24 questions. Element 3 written examination consists of questions from categories such as operating procedures, radio wave propagation, radio practice, electrical principles, circuit components, practical circuits, signals and emissions, and antennas and feed lines. To pass, an examinee must correctly answer 57 out of 76 questions.	Federal Communications Commission http://www.fcc.gov/wireless
203	FCC Commercial Radio Operator License - Element 8 Ship Radar Endorsement	FEDCC002	Only persons who hold a commercial radio operator license with a ship radar endorsement may repair, maintain, or internally adjust ship radar equipment.	To qualify, an applicant must hold (or qualify for) a General Radio Telephone Operators License (PG), GMDSS Radio Maintainer's License (DM), First Class Radio Telegraph Operators Certificate (T1), or Second Class Radio Telegraph Operators Certificate (T2); and pass a written examination. Element 8 written examination covers Ship Radar Techniques and requires an examinee to correctly answer 38 out of 50 questions.	Federal Communications Commission http://www.fcc.gov/wireless

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204	Fire Alarm Systems	NICET003	This certification program was designed for engineering technicians working in the fire alarm industry who engage in a combination of the following fire alarm systems activities: system layout (plan preparation), system equipment selection, system installation, system acceptance testing, system trouble-shooting, system servicing, and system sales. Technical areas covered include applicable codes and standards, types of signaling systems, supervision requirements, types of fire and smoke detectors, building occupancy considerations, basic electricity and electronics, and physical science fundamentals.	NICET has established the following criteria for certification in Fire Alarm Systems: sufficient appropriate work experience, successful performance on a written exam based on job tasks, and supervisor verification of job task competency. A personal recommendation is required at Levels III and IV. The Fire Alarm Systems program comprises four levels of certification. Level I is designed for trainees and entry-level technicians who perform limited job tasks under frequent supervision, Level II is for technicians who perform routine tasks under general daily supervision, Level III is for intermediate-level technicians who, under little or no daily supervision, work with standards, plans, specifications, and instructions, and Level IV is for independent, senior-level technicians whose work includes supervising others. To obtain certification in all four levels an individual must earn 67 work elements; each examination is equal to 34 work elements. Therefore at least two exam sittings are required to complete this certification.	National Institute for Certification in Engineering Technologies (NICET) www.nicet.org
205	Fire Fighter I	FLSFM005	The Firefighter I Training Program is the basic certification level of training and competency for all individuals performing firefighting duties in the State of Florida.	The Firefighting I Training Program which includes NFPA Firefighter I and 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. Ref Florida Statutes 633.35 The division shall issue a certificate of compliance to any person satisfactorily complying with the training program established in subsection (1), who has successfully passed an examination as prescribed by the division.	Florida Department of Financial Services, State Fire Marshall, Bureau of Fire Standards & Training www.myfloridacfo.com/sfm
206	Fire Fighter II	FLSFM006	The minimum standards certification course for certified Firefighter I's is a mentally, physically, and emotionally challenging program that includes extensive classroom and practical elements. The 240-hour course runs for six consecutive weeks.	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. Ref Florida Statutes 633.35 The division shall issue a certificate of compliance to any person satisfactorily complying with the training program established in subsection (1), who has successfully passed an examination as prescribed by the division.	Florida Department of Financial Services, State Fire Marshall, Bureau of Fire Standards & Training www.myfloridacfo.com/sfm
207	First Responder Certification	NREMT003	This certification covers the entire spectrum of Emergency Medical Services (EMS) care including: Airway and Breathing; Cardiology; Trauma; Medical; Obstetrics and Pediatrics; and Operations.	Successful completion of a state-approved First Responder course that meets or exceeds the U.S. Department of Transportation First Responder National Standard Curriculum. An individual must have completed the course within the past two years. Verification from a Program Director that the individual holds a current CPR credential for health care providers and have demonstrated competence in First Responder skills. Candidates are required to successfully complete the First Responder cognitive exam- 80 to 110 items- that tests an individual's ability to safely and effectively perform emergency patient care. In addition, successful completion of a state-approved First Responder psychomotor exam.	National Registry of Emergency Medical Technicians http://www.nremt.org/EMTServices/reg_1st_history.asp

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208	Foodservice Management Professional (FMP)	NRAEF001	The Foodservice Management Professional (FMP) credential distinguishes restaurant and foodservice managers who achieve the high level of knowledge, experience, leadership and professionalism our industry most desires. For this reason, more employers prefer candidates who hold the FMP credential.	Candidates must have three years supervisory experience in a restaurant or foodservice operation. If candidates hold an associate degree or higher in business or hospitality, only two years supervisory experience is required. Candidates must have earned a food protection manager certification within a five year period prior to applying. The examination must meet the intent and scope of the Food Protection Manager Certification Program standards and criteria as established through the Conference for Food Protection (e.g., ServSafe Food Protection Manager Certification Examination).	National Restaurant Association Educational Foundation www.nraef.org
209	Foreign Object Elimination (FOE)	NCATT002	FOE - Elements of Basic Awareness addresses twelve industry identified basic knowledge areas, activities and functions designed to prevent foreign objects from entering aviation and aerospace products to eliminate foreign object debris.	Technicians and students preparing for the NCATT Certification exam are required to demonstrate competency in the following standards and outcomes: Basic Terms & Definitions, Housekeeping, Tool Accountability, Hardware Accountability, Lost Items, Physical Entry & Personnel Control, Reporting & Investigating, Material Handling, Parts Protections, Hazardous Materials, Wildlife/Environment, and FOD Effects.	National Center for Aircraft Technician Training www.ncatt.org
210	GIS Technician (Entry)	DIGIT001	STARS (Spatial Technology and Remote Sensing) is both the name of an industry standard Geospatial Certification and the name of a series of courses that prepare the student to take the GIS certification test. STARS is the first and only competency based, industry recognized, entry level, geospatial certification. The STARS certification is a 4 semester series of courses that provides students with skills to be an entry level geospatial technician.	The STARS GIS certification test consists of two parts: (1) a guided project where the student or prospective employee must demonstrate his or her understanding of the GIS process and utilize all of the skill set required for employment; and (2) a written exam requiring the student or prospective employee to demonstrate that they have the necessary depth of knowledge to be employed in the geospatial industry.	DigitalQuest Inc. www.digitalquest.com
211	GPHR® (Global Professional in Human Resources)	HRCIS003	PHR, SPHR, and GPHR certification shows that the holder has demonstrated mastery of the domestic or international HR body of knowledge and , through recertification, has accepted the challenge to stay informed of new developments in the HR field.	Candidates should have a minimum of two years of professional HR experience and provide evidence that at least 51% of daily activities are within the HR function at the exempt level (professional). Pass a 3 hour 165 multiple-choice question exam with a passing score of 500 (the minimum possible score is 100 and maximum is 700).	Human Resource Certification Institute Society for Human Resource Management www.hrci.org/certification/ov/
212	HACCP Auditor - CHA	AMSFQ004	The Certified HACCP Auditor is a professional who understands the standards and principles of auditing a HACCP-based (or process-safety) system. A HACCP Auditor uses various tools and techniques to examine, question, evaluate and report on that system's adequacy and deficiencies. The HACCP Auditor analyzes all elements of the system and reports on how well it adheres to the criteria for management and control of process safety.	Five years of on-the-job experience with at least one year in a decision making role and pass a 4-hour written exam that consists of 135 multiple-choice questions that measures comprehension of the Body of Knowledge (HACCP System, HACCP Principles, Implementation and Maintenance of HACCP System, Auditing Fundamentals, Audit Process, Auditor Competencies, and Quality Tools and Techniques).	American Society for Quality (ASQ) www.asq.org/store/training-certification
213	HEAT certification	HVACE007	Any technician responsible for the installation, service and maintenance of air-to-air heat pump systems should be Heat Pump Certified.	A core exam, Principles of Electrical and Refrigeration Theory Certification, is required. A written exam focusing on the following is also required: theory, operation and components of a reverse cycle heat pump, four-way valves, heat sources for heat pumps, auxiliary heat for heat pumps, heat pump efficiency ratings, co-efficiency of performance, control sequences, maintenance procedures, and safety. Prerequisite: two years field experience.	HVAC (Heating, Ventilation and Air Conditioning) Excellence www.hvacexcellence.org

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214	HEAT+ certification	HVACE008	Any technician responsible for the installation, service and maintenance of air-to-air heat pump systems should be Heat Pump Certified. Electrical and Air Conditioning Certifications are prerequisites for this test.	Pass a written exam focusing on the following: theory, operation and components of a reverse cycle heat pump, four-way valves, heat sources for heat pumps, auxiliary heat for heat pumps, heat pump efficiency ratings, co-efficiency of performance, control sequences, maintenance procedures, and safety.	HVAC (Heating, Ventilation and Air Conditioning) Excellence www.hvacexcellence.org
215	Highway Surveys Certification	NICET004	This certification program is for engineering technicians involved in field and/or office aspects of highway surveying. The technician, when reaching Level IV (senior grade), will have had experience in a variety of activities such as horizontal and vertical measurements, traversing, cross-sectioning, staking, mapping, photogrammetry, land descriptions, and platting.	The National Institute for Certification in Engineering Technologies (NICET) has established the following criteria for certification in Highway Surveys: sufficient appropriate work experience, successful performance on a written exam based on job tasks, and supervisor verification of job task competency. A personal recommendation is required at Levels III and IV (Level IV- the highest level- requires ten years experience).	National Institute for Certification in Engineering Technologies (NICET) www.nicet.org
216	IBM Certified Application Developer - Programming with IBM Enterprise PL/I	IBMCO001	The IBM PL/I Programmer has a good understanding of the fundamentals of the IBM PL/I language syntax and semantics. The programmer is responsible for implementing a specific task whose specifications have been provided. He/she has an understanding of the fundamental aspects of the language syntax, but has in-depth knowledge in only a limited number of technical aspects of the language.	This certification requires 1 test-Test 041 - Programming with IBM Enterprise PL/I. Number of questions: 73 Time allowed in minutes: 120	IBM Corporation www.ibm.com
217	ICC Professional Certification - Building Inspector	INTCC001	Residential Building Inspector - I ; Commercial Building Inspector - II Construction and building inspectors examine buildings, highways and streets, sewer and water systems, dams, bridges, and other structures to ensure that their construction, alteration, or repair complies with building codes and ordinances, zoning regulations, and contract specifications. Building codes and standards are the primary means by which building construction is regulated in the United States for the health and safety of the general public.	Most employers require formal education and training; and possession of at least a high school diploma. Often, employers prefer individuals who have graduated from an apprenticeship program, studied engineering or architecture for at least two years, or have a degree from a community college with courses in construction technology, blueprint reading, mathematics, and building inspection. Exam ID: B1 ; Exam ID: B2 - Candidates must pass the B1 and B2 exams for Building Inspector certification.	International Code Council www.iccsafe.org
218	Information Systems Security Management Professional (ISSMP)	IISCC001	This certification provides information security professionals with not only an objective measure of competence but a globally recognized standard of achievement. The ISSMP credential demonstrates competence in the ten domains of the (ISC) ² CISSP CBK. The ISSMP credential is ideal for mid- and senior-level managers who are working toward or have already attained positions as CISOs, CSOs or Senior Security Engineers.	The current requirements for the ISSMP call for four years of work experience in one or more of the ten domains of the CISSP CBK, or three years of experience with an applicable college degree or a credential from the (ISC) ² approved list. Candidates for the ISSMP must: be a CISSP in good standing ; pass the ISSMP examination; demonstrate two years of professional experience in the area of management; and maintain the credential in good standing.	International Information Systems Security Certification Consortium, Inc. Www.isc2.org
219	J-STD-001 Certified IPC (Institute of Interconnecting and Packaging Electronic Circuits) Specialist (Soldering Specialist)	IPCEI001	The IPC J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies has emerged as the preeminent authority for electronics assembly manufacturing. The standard describes materials, methods and verification criteria for producing high quality soldered interconnections. The standard emphasizes process control and sets industry-consensus requirements for a broad range of electronic products.	The training program uses soldering labs and demonstrations as well as classroom instruction to teach the standard criteria. Certified IPC candidates who successfully complete the soldering workmanship portions of the course and the certification examination are given the instructional materials needed for training Application Specialists. The Application Specialists training is "modularized," meaning that training on the entire document is not required. Application Specialists must be trained on the introductory section (8 hours), and then may be trained on other modules covering: wires and terminals, through hole technology, surface mount technology and inspection.	IPC- Association Connecting Electronics Industries www.ipc.org

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220	LabView Certification- The Associate Developer	NINSC001	The Associate Developer- is the first step in the certification process for professionals; entry level certification for students; and represents a broad and complete understanding of the core features of the NI products. This certification is designed for professionals and students who wish to demonstrate: a foundational proficiency in the use of NI products and technologies for test and measurement applications; and technical growth in the use of NI products and technologies for their job functions or projects.	Exam Format: Multiple choice and one-hour duration.	National Instruments Corporation www.ni.com/training
221	Lean Certification (Lean Bronze Certification–LBC)	SMFEN001	The Lean Bronze Certification (LBC) demonstrates a solid understanding of basic lean principles and tools, and ability in tactical implementation that drives improvement and shows measurable results.	To be eligible for the LBC requires: 2 academic quarters or equivalent of time spent in study of lean; minimum 1 year of industry work experience; minimum 6 months of experience of directly related to Lean implementation (total experience must equal 4 years of combined industry experience, Lean experience and academic study). Candidate must pass a three hour, 150 question exam and complete a portfolio that outlines and documents 5 Lean projects and a summary of those projects.	Society of Manufacturing Engineers, Association for Manufacturing Excellence, and The Shingo Prize for Excellence in Manufacturing www.sme.org/cgi-bin/cerhtml.pl/?cert/certification.html&&SME&
222	LEED Professional Accreditation	GRBCI001	LEED Professional Accreditation distinguishes building professionals with the knowledge and skills to successfully facilitate the LEED certification process. LEED Accredited Professionals (LEED APs) have demonstrated a through understanding of green building practices and principles and the LEED Rating System.	There are no prerequisites to taking the LEED Professional Accreditation exam but it is strongly recommended for candidates: 1) have tenure in green building and construction industry knowledge; 2) familiarity with documentation process for LEED certified projects; 3) knowledge of LEED credit intents, requirements, submittals, technologies and strategies within your discipline; 4) practical experience working with multiple design disciplines; 5) understanding of life cycle cost and benefits of LEED; and 6) familiarity with LEED resources and processes. The LEED for New Construction, version 2.2 and LEED for Commercial Interiors, version 2.0 are the two exam tracks currently offered toward achieving the LEED AP credential. Candidates need to pass one exam track to earn the LEED AP credential. The exam is comprised of 80 multiple choice questions to be completed in 2 hours. The passing score 170 on a scale of 125 to 200.	Green Building Certification Institute (GBCI) www.gbci.org
223	Licensed Practical Nurse	FDMQA017	To ensure public protection, each jurisdiction requires a candidate for licensure to pass an examination that measures the competencies needed to perform safely and effectively as a newly licensed, entry-level registered nurse. The National Council of State Boards of Nursing (NCSBN) developed a licensure examination, the National Council Licensure Examination for Practical Nurses that are used by state and territorial boards of nursing to assist in making licensure decisions.	A student completes the requirements (set by the Board of Nursing (BON)) of an accredited program/school (licensed by & meets BON expectations) and graduates. The school submits the graduate names to BON and graduates submit an application for licensure to BON. BON approves the graduate to take the National Council Licensure Examination (NCLEX) for Practical Nurses. A candidate has five hours to complete the PN examination. If the graduate passes the examination and the criminal check is verified and the file is complete, the BON issues the license.	Florida Department of Health, Division of Medical Quality Assurance www.doh.state.fl.us/mqa/nursing/index.html

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224	License - Real Estate Sales Associate	FLDRE002	Each state requires a state issued license. America's Real Estate Academy, Inc. (AREA), is one of the preeminent accredited real estate schools and now serving Florida residents.	The education curriculum is complete with real estate broker and sales associate (salesperson) pre-license and post license courses, appraisal classes, home inspection classes, and training in computers, appraisal, home inspection and real estate sales - all that is required to obtain and maintain a professional license; utilizing classroom, online and/or computer based courses and training (63hrs).	Florida Department of Business and Professional Regulation, Division of Real Estate
225	Loan Review Certificate Program (LRC)	BAICC001	Bank Administration Institute (BAI) has developed a comprehensive, fourstep educational program for loan review personnel. The Loan Review Certificate Program will accelerate the development of loan review staff, enhance the quality of reviews, improve early detection of deteriorating loans, thereby contributing to the overall safety and soundness of the loan portfolio so that it passes regulatory scrutiny. It is the only recognized loan review certificate program in the United States. Graduates will be awarded the Certificate in Loan Review signifying a high level of expertise in loan review practices and procedures that serve as the standard for the financial services industry.	Proficiency test (to bypass Certificate Course I) or Certificate Course I: A three-day introductory course (required course if proficiency test is failed). Certificate Course II: A four-day advanced course Certificate. Final Examination: An individual will be given a number of case studies upon which they must perform an analysis on a credit process, loan portfolio analysis and loan documentation. Analysis must utilize a formal loan review format supported by a written analysis/narrative on each case. An individual will have eight weeks to complete the examination	Bank Administration Institute (BAI) Center for Certification www.bai.org
226	Manager of Quality/Organizational Excellence	AMSFQ001	The Certified Manager of Quality/Organizational Excellence is a professional who leads and champions process-improvement initiatives everywhere from small businesses to multinational corporations that can have regional or global focus in a variety of service and industrial settings. A Certified Manager of Quality/Organizational Excellence facilitates and leads team efforts to establish and monitor customer/supplier relations, supports strategic planning and deployment initiatives, and helps develop measurement systems to determine organizational improvement.	An individual must have 10 years of on-the-job experience in one or more of the areas of the Certified Manager of Quality/ Organizational Excellence Body of Knowledge. A minimum of five years of this experience must be in a decision-making position, defined as the authority to define, execute or control projects/processes and to be responsible for the outcome. This may or may not include management or supervisory positions. The examination is a four-hour, two-part examination—150 multiple choice questions and two constructed response (essay) questions.	American Society for Quality www.asq.org
227	Master Certified Coach (MCC)	INTCF001	International Coach Federation (ICF) credentials are highly recognized coaching qualifications with credibility around the world. If an individual is serious about building or maintaining their coaching business and care for being part of a well-respected, self-regulating profession, they will be interested in gaining ICF Credentials. The ICF offers an advanced level credential in Master Certified Coach (MCC).	The requirements for the MCC credential are: 2,500 client hours (10 percent may be pro bono); 200 hours of coach-specific training; and ten hours of mentor coaching (coaching on your coaching). The ICF MCC Exam consists of three parts: Written Exam: Applicants holding a current PCC credential will not be required to take the written exam. Client Recording: Each applicant must submit one recording of a client session per instructions on the application form. The recording is submitted along with the application. The recording must demonstrate the applicant's coaching competency in one hour or less. Live Oral Coaching Demonstration: Each applicant must sit for a 'not-to-exceed 30 minutes' live oral exam, administered by an assessor team. Passing the Exam: In order to be awarded the MCC Credential, an applicant must pass each and all of the three parts of the exam.	International Coach Federation www.coachfederation.org

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228	Mastercam Certified Programmer Mill Level 1 (CPgM1)	CNCSI001	The Mastercam Certified Programmer Mill Level 1 (CPgM1) is a rigorous set of practical tests that demonstrate a programmer's ability to work effectively with CAM software, overcome common issues facing today's shops, and produce high quality finished parts. Geared to 2D machining, it ensures a strong foundation in CNC knowledge.	Students enrolled in the Mastercam CAD/CAM program must take a 120 multiple-choice question assessment and pass with a score of 70% or better to evaluate the level of machining knowledge and skills to assist instructors in determining if a student is ready to proceed with Mastercam certification. The CPgM1 certification exam is a practical test and requires the applicant to: (1) Create a 3D wireframe using Mastercam software within 2 hours; (2) Create a CNC program and support information for each setup within 2.5 hours; and (3) Program must be run by Certified Instructor based on criteria to meet certification requirements.	Mastercam www.mastercam.com
229	MCIT Professional: Business Intelligence Developer	MICRO026	Microsoft Certified IT Professional: Business Intelligence Developer certification demonstrates that an individual can design analysis solutions, data transformations, and reports. Business intelligence developers design and implement multi-dimensional database models (logical and physical), data marts, data warehousing, data transforms, data analytics, and reporting solutions.	An individual must successfully complete two exams: one Microsoft Certified Technology Specialist (MCTS) prerequisite exam and one Professional Series exam.	Microsoft Corporation www.microsoft.com/learning
230	MCIT Professional: Consumer Support Technician	MICRO027	The Microsoft Certified IT Professional: Consumer Support Technician (MCITP: Consumer Support Technician) credential is the premier certification to highlight and validate an individual's expertise and skill set in a job role supporting a broad range of consumer desktop operating systems, desktop applications, mobile devices, networking, and hardware support issues related to the Windows Vista operating system.	An individual must successfully complete two exams: one Microsoft Certified Technology Specialist (MCTS) Windows Vista prerequisite exam and one Professional Series exam.	Microsoft Corporation www.microsoft.com/learning
231	MCIT Professional: Database Administrator	MICRO028	Microsoft Certified IT Professional: Database Administrator (MCITP: Database Administrator) is the premier certification for database server administrators. Database administrators install or configure Microsoft SQL Server and manage or maintain databases or multidimensional databases, user accounts, database availability, recovery, and reporting. They also design or implement security or server automation and monitor and troubleshoot SQL Server activity.	An individual must pass three exams: one Microsoft Certified Technology Specialist (MCTS) prerequisite exam and two Professional Series exams.	Microsoft Corporation www.microsoft.com/learning
232	MCIT Professional: Database Developer	MICRO029	Microsoft Certified IT Professional: Database Developer certification demonstrates that you can design a secure, stable, enterprise database solution by using Microsoft SQL Server 2005. Database developers design and implement relational database models (logical and physical) and database storage objects.	An individual must pass three exams: one Microsoft Certified Technology Specialist (MCTS) prerequisite exam and two Professional Series exams.	Microsoft Corporation www.microsoft.com/learning
233	MCIT Professional: Enterprise Administrator	MICRO030	By earning the MCITP: Enterprise Administrator certification, an individual can distinguish themselves as an IT professional committed to excellence in working with Windows Server 2008. Enterprise administrators are recognized as leaders in Windows infrastructure design.	An individual must pass five exams: four Microsoft Certified Technology Specialist (MCTS) prerequisite exams and one Professional Series exam.	Microsoft Corporation www.microsoft.com/learning

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234	MCIT Professional: Enterprise Messaging Administrator	MICRO031	The Microsoft Certified IT Professional: Enterprise Messaging Administrator (MCITP: Enterprise Messaging Administrator) is the premier certification to highlight a professional's area of expertise. This certification validates the knowledge and skills associated with performing as the lead engineer for messaging solutions within an enterprise organization, as well as the ability to design and deploy messaging solutions with Microsoft Exchange Server 2007.	An individual must successfully complete three exams: one Microsoft Certified Technology Specialist (MCTS) Microsoft Exchange Server 2007 prerequisite exam and two Professional Series exams.	Microsoft Corporation www.microsoft.com/learning
235	MCIT Professional: Enterprise Project Management with Microsoft Office Project Server 2007	MICRO032	More than a product certification, the new Microsoft Office Project 2007 certification is designed specifically to help project managers apply the leading project management best practices and methodologies as established by the Project Management Institute (PMI), resulting in better project outcomes, greater efficiency, and optimal resource management.	An individual must pass three exams: two Microsoft Certified Technology Specialist (MCTS) prerequisite exams and one Professional Series exam.	Microsoft Corporation www.microsoft.com/learning
236	MCIT Professional: Enterprise Support Technician	MICRO033	The Microsoft Certified IT Professional: Enterprise Support Technician credential validates the knowledge and skills required to deploy and support the Windows Vista operating system. Candidates for this credential have expertise in deploying Windows Vista, managing security, and troubleshooting network issues.	An individual must successfully complete two exams: one Microsoft Certified Technology Specialist (MCTS) Windows Vista prerequisite exam and one Professional Series exam.	Microsoft Corporation www.microsoft.com/learning
237	MCIT Professional: Server Administrator	MICRO034	By earning the MCITP: Server Administrator certification an individual can demonstrate and communicate their ability to take system-wide ownership of Windows Server 2008 administration, and increase their organization's return on technology investment. Server administrators are recognized as leaders in the day-to-day operations management of Windows Server 2008.	An individual must pass three exams: two Microsoft Certified Technology Specialist (MCTS) prerequisite exams and one Professional Series exam.	Microsoft Corporation www.microsoft.com/learning
238	Medical Laboratory Technician (MLT(ASCP))	AMSCP002	Working under the supervision of the medical technologist an MLT performs routine tests in all areas of the clinical laboratory. An MLT searches for basic clues to the absence, presence, extent of the causes of disease. This skilled individual is responsible for performing laboratory tests efficiently and accurately for high-quality patient care.	An associate degree or at least 60 semester hours (90 quarter hours) of academic credit from a regionally accredited college/university; and option (1): successful completion of a NAACLS accredited MLT program within the last 5 years and courses in biology and chemistry; or option (2): including 6 semester hours (9 quarter hours) of chemistry and 6 semester hours (9 quarter hours) of biology and CLA (ASCP) certification; or option (3): including 6 semester hours (9 quarter hours) of chemistry and 6 semester hours (9 quarter hours) of biology and successful completion of a 50 week U.S. military medical laboratory training course; or option (4): including 6 semester hours (9 quarter hours) of chemistry and 6 semester hours (9 quarter hours) of biology and three years full time acceptable clinical laboratory experience.	American Society of Clinical Pathologists www.ascp.org

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239	Medical Laboratory Technician (MLT)	AMA0B001	Individuals may be certified as an Medical Laboratory Technician (MLT) in one or more of six technical disciplines: Chemistry; Hematology; Immunology; Immunochemistry, Microbiology or Molecular Diagnostics.	To be certified as MLT, an individual must be a high school graduate, or equivalent, pass the appropriate AAB Board of Registry examination, and complete one of the following: Complete a clinical laboratory training program approved or accredited by an organization approved by the U.S. Department of Health and Human Services (HHS); Earn an associate degree (or the equivalent) in a laboratory science, or medical laboratory technology, from an accredited institution; Successfully complete an official U.S. military medical laboratory procedures course of at least fifty (50) weeks duration and earn the military enlisted occupational specialty of Medical Laboratory Specialist (Laboratory Technician); Document five (5) years of full-time clinical laboratory experience (in the applicable technical disciplines) acceptable to the AAB Board of Registry; or Be certified as a POLT(AAB) and obtain four (4) years of acceptable clinical laboratory experience and six (6) continuing education units (CEUs).	American Association of Bioanalysts (AAB) www.aab.org
240	Medical Technologist (MT(AAB))	AMA0B002	Clinical laboratory technologists perform complex chemical, biological, hematological, immunologic, microscopic, and bacteriological tests. Technologists microscopically examine blood and other body fluids. They make cultures of body fluid and tissue samples, to determine the presence of bacteria, fungi, parasites, or other microorganisms. Clinical laboratory technologists analyze samples for chemical content or a chemical reaction and determine concentrations of compounds such as blood glucose and cholesterol levels. They also type and cross match blood samples for transfusions.	Earn an associate degree or an associate of applied science degree, or the equivalent, from an accredited institution with a major in a laboratory science or medical technology. Some individuals may also be required to obtain three years of acceptable full-time experience in the applicable technical disciplines. Individuals who lack three years of acceptable full-time experience may still challenge the MT(AAB) examination. Upon passing the examination, these individuals will be designated medical technologist-provisional [MT-P(AAB)] until they complete three years of acceptable full-time experience in the applicable technical disciplines, at which time the provisional status will be removed.	American Association of Bioanalysts (AAB) www.aab.org
241	Microsoft Certified Architect- Database	MICRO037	The Microsoft Certified Architect credential lets customers know that the MCA is an experienced architect who speaks the languages of business, architecture, and technology. The MCA has the skills and background to create and migrate the most reliable and optimized messaging or database solutions at the enterprise level.	Prerequisites: Be a Microsoft Certified Partner or an eligible Microsoft employee; have completed the Microsoft Certified IT Professional (MCITP): Database Developer and the Database Administrator certification; have 300-level knowledge of software development methodologies; have three or more years of experience architecting and deploying SQL Server; and have experience working with SQL Server 2005. An individual must attend four weeks of classroom training on Microsoft SQL Server.	Microsoft Corporation www.microsoft.com/learning
242	Microsoft Certified Architect- Messaging	MICRO038	The Microsoft Certified Architect credential lets customers know that the MCA is an experienced architect who speaks the languages of business, architecture, and technology. The MCA has the skills and background to create and migrate the most reliable and optimized messaging or database solutions at the enterprise level.	Prerequisites: Be a Microsoft Certified Partner or an eligible Microsoft employee; have a current Microsoft Certified Systems Engineer (MCSE) certification with the Messaging 2003 specialization or have a current Microsoft Certified IT Professional (MCITP) Enterprise Messaging Administrator credential; have 300-level knowledge of Exchange Server; and have more than three years of experience architecting and deploying Microsoft Exchange Server. Once accepted, an individual must attend four weeks of classroom training on Microsoft Exchange Server; and pass a performance-based lab exam—the Exchange Environmental Dependencies Course (EDC) exam.	Microsoft Corporation www.microsoft.com/learning

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243	Microsoft Certified Business Management Solutions Professional	MICRO058	The Microsoft Certified Business Management Solutions Professional credential helps identify and distinguish your technical skill set in using a Microsoft Dynamics or related business product.	A candidate must pass a set of required and elective certification exams. The exams focus on one of three knowledge areas—applications, developer, or installation and configuration—for one Microsoft Dynamics product.	Microsoft Corporation www.microsoft.com/learning
244	Microsoft Certified Business Management Solutions Specialist	MICRO040	Achieving the Microsoft Certified Business Management Solutions Specialist certification helps demonstrate an individual's proficiency in one module of a Microsoft Dynamics or related business product.	An individual must pass a single certification exam; Choose one of the Microsoft Dynamics products for a list of the Specialist-level certifications available.	Microsoft Corporation www.microsoft.com/learning
245	Microsoft Certified Database Administrator (MCDBA)	MICRO005	The Microsoft Certified Database Administrator (MCDBA) on Microsoft SQL Server 2000 credential is the premier certification for professionals who implement and administer Microsoft SQL Server databases. The certification is appropriate for individuals who derive physical database designs, develop logical data models, create physical databases, create data services by using Transact-SQL, manage and maintain databases, configure and manage security, monitor and optimize databases, and install and configure SQL Server.	Candidates need to pass three core exams and one elective exam that provide a valid and reliable measure of technical proficiency and expertise in the implementation and administration of Microsoft SQL Server databases.	Microsoft Corporation www.microsoft.com/learning
246	Microsoft Certified Desktop Support Technician (MCDST)	MICRO006	This credential proves that an individual has the skills to successfully support end-users and to successfully troubleshoot desktop environments that are running the Microsoft Windows operating system.	MCDST candidates are required to pass two core exams: Exam One- Supporting Users and Troubleshooting a Microsoft Windows XP Operating System and Exam Two- Supporting Users and Troubleshooting Desktop Applications on a Microsoft Windows XP Operating System. The certification includes a five day classroom training and 30 hours Microsoft E- learning (on line training).	Microsoft Corporation www.microsoft.com/learning
247	Microsoft Certified IT Professional	MICRO007	The new Microsoft Certified IT Professional (MCITP) credential lets an individual highlight their specific area of expertise. An individual can easily distinguish themselves as an expert in database administration, database development, or business intelligence.	Training courses: Designing a Microsoft SQL Server 2005 Infrastructure (two days); Designing Security for Microsoft SQL Server 2005 (two days); Designing High Availability Database Solutions Using Microsoft SQL Server 2005 (three days); Exam: Pro: Designing a Database Server Infrastructure by Using Microsoft SQL Server 2005.	Microsoft Corporation www.microsoft.com/learning
248	Microsoft Certified Learning Consultant (MCLC)	MICRO041	The Microsoft Certified Learning Consultant (MCLC) credential recognizes Microsoft Certified Trainers (MCTs) whose job roles have grown to include frequent consultative engagements with their customers. They are more than technology trainers; they diagnose current and desired business performance and design learning solutions to bridge the gap.	An individual must fulfill the requirements of a Microsoft Certified Trainer (MCT). Candidates must submit a case study that demonstrates their qualifications in four key competency areas: Assessment: The MCLC evaluates the customer's overall learning requirements, business objectives, desired results, and constraints, and conducts a skills assessment to identify specific training needs; Design: Following a thorough assessment, the MCLC designs a customized learning solution, which may be a blend of classroom courses, e-learning materials, and reference books; Development: After the design has been accepted, the MCLC develops and implements a customized solution, which is a process that requires both technical and training expertise; Evaluation: Throughout the project and upon completion, the MCLC works with the customer to evaluate the effectiveness of the solution and to calculate the Return on Investment (ROI).	Microsoft Corporation www.microsoft.com/learning

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249	Microsoft Certified Professional Developer (MCPD) - Enterprise Applications Developer	MICRO042	The Microsoft Certified Professional Developer: Enterprise Applications Developer (MCPD: Enterprise Applications Developer) certification demonstrates that an individual has comprehensive skills required to build n-tier solutions that target both Web and client user experiences.	MCPD: Enterprise Applications Developer on Visual Studio 2005 candidates must first meet the requirements for the three Microsoft Certified Technology Specialist (MCTS) credentials for the Microsoft .NET Framework 2.0. After earning these credentials, an individual can earn their MCPD: Enterprise Applications Developer on Visual Studio 2005 certification by passing one additional required exam.	Microsoft Corporation www.microsoft.com/learning
250	Microsoft Certified Professional Developer (MCPD) - Web Developer	MICRO043 MICRO062	The Microsoft Certified Professional Developer: Web Developer (MCPD: Web Developer) certification demonstrates that an individual has the comprehensive skills that are required to build interactive, data-driven Web applications that use ASP.NET 2.0 for both intranet and Internet uses.	MCPD: Web Developer candidates must first complete the requirements for the MCTS .NET Framework 2.0 Web Applications certification (two exams). After candidates earn this certification, they can earn their MCPD: Web Developer by passing one additional required exam (Exam # 70-547). For candidates needing to upgrade their skills from Visual Studio 2005 to 2008, Microsoft now has the MCPD: ASP.NET Developer certification available. This certification requires two Microsoft Certified Technology Specialist (MCTS) prerequisite exams and one Professional Series exam (MCTS: .NET Framework 3.5, ASP.NET Applications and PRO: Designing and Developing ASP.NET Applications Using Microsoft .NET Framework 3.5). The Department of Education has created a new code for the MCPD: ASP.NET Developer (MICRO062).	Microsoft Corporation www.microsoft.com/learning
251	Microsoft Certified Professional Developer (MCPD) - Windows Developer	MICRO044	The Microsoft Certified Professional Developer: Windows Developer (MCPD: Windows Developer) certification demonstrates that an individual has the comprehensive skills required to build rich client applications that target the Windows Forms platform, using the Microsoft .NET Framework 2.0.	MCPD: Windows Developer on Visual Studio 2005 or Visual Studio 2008 candidates must first complete the requirements for the MCTS: .NET Framework 2.0 or 3.5 Windows Applications certification (two exams). After candidates earn this certification, they can earn their MCPD: Windows Developer on Visual Studio 2005 or Visual Studio by passing one additional exam.	Microsoft Corporation www.microsoft.com/learning
252	Microsoft Certified Solution Developer (MCSD)	MICRO009	The Microsoft Certified Solution Developer (MCSD) credential is the top-level certification for advanced developers who design and develop leading-edge enterprise solutions using Microsoft development tools and technologies in addition to the Microsoft NET Framework 1.0 and Microsoft NET Framework 1.1.	Candidates are required to pass four core exams: Web Application, Windows Application Development, Web Services & Server Components Development, and Solution Architecture; and one elective exam.	Microsoft Corporation www.microsoft.com/learning
253	Microsoft Certified Solution Developer (MCSD)- .NET	MICRO010	Certification provides a valid and reliable measure of technical proficiency and expertise in developing and maintaining enterprise applications that are based on Microsoft development tools, technologies, and platforms on the Microsoft .NET Framework 1.0 and Microsoft .NET Framework 1.1.	Microsoft Certified Solution Developer (MCSD) for Microsoft .NET candidates should have two years of experience developing and maintaining solutions and applications. MCSD for Microsoft .NET candidates are required to pass four core exams and one elective exam.	Microsoft Corporation www.microsoft.com/learning
254	Microsoft Certified Systems Administrator (MCSA)- Windows 2000	MICRO045	Certification knowledge areas include: Managing and Maintaining a Windows Server 2003 Environment; Implementing, Managing, and Maintaining a Microsoft Windows Server 2000 Network Infrastructure; and Installing, Configuring, and Administering Windows XP.	To earn the MCSA on Windows Server 2000 certification, an individual must pass four exams: Two core exams on networking systems; one core exam on client operating systems; and one elective exam. An MCSA candidate should have twelve months of experience working with a desktop operating system, a network operating system, and an existing network infrastructure.	Microsoft Corporation www.microsoft.com/learning

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255	Microsoft Certified Systems Administrator (MCSA) - Windows Server 2003	MICRO046	Certification knowledge areas include: Managing and Maintaining a Microsoft Windows Server 2003 Environment; Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure; and Installing, Configuring, and Administering Microsoft Windows XP Professional.	To earn the MCSA on Windows Server 2003 certification, an individual must pass four exams: Two core exams on networking systems; one core exam on client operating systems; and one elective exam. Candidates for the MCSA on Windows Server 2003 certification typically have six to twelve months of experience administering client and network operating systems.	Microsoft Corporation www.microsoft.com/learning
256	Microsoft Certified Systems Engineer (MCSE)	MICRO012	The Microsoft Certified Systems Engineer (MCSE) credential is the premier certification for professionals who analyze the business requirements and design and implement the infrastructure for business solutions based on the Microsoft Windows 2000 platform and Microsoft Windows Server System.	Four operating system exams are required. Candidates must pass one exam from each set of operating system exams—client operating system and networking system; one design exam; and candidates must pass one exam that provides proof of expertise for design skills for specific Microsoft server technologies.	Microsoft Corporation www.microsoft.com/learning
257	Microsoft Certified Systems Engineer 2003 (MCSE)	MICRO013	Certification knowledge areas include: Managing and Maintaining a Windows Server 2003 Environment; and Implementing, Managing, and Maintaining a Windows Server 2003 Network Infrastructure.	To earn your MCSE on Windows Server 2003 certification, an individual must pass seven exams: Four core exams on networking systems; one core exam on client operating systems; one core design exam; and one elective exam. Candidates for the MCSE on Windows Server 2003 certification typically have at least one year of experience implementing and administering both network and client operating systems.	Microsoft Corporation www.microsoft.com/learning
258	Microsoft Certified Technology Specialist (MCTS): .NET Framework 2.0 Distributed Applications	MICRO047	Developers holding the Microsoft Certified Technology Specialist: .NET Framework 2.0 Distributed Applications certification have demonstrated breadth and depth of skills and knowledge of Web services, .NET Framework remoting, Enterprise Services, and Message Queuing technology.	Candidates for this certification must pass two exams: one that focuses on .NET Framework 2.0 foundational skills and one that focuses on developing distributed applications.	Microsoft Corporation www.microsoft.com/learning
259	Microsoft Certified Technology Specialist (MCTS): .NET Framework 2.0 Web Applications	MICRO048	Developers holding the Microsoft Certified Technology Specialist: .NET Framework 2.0 Web Applications certification have demonstrated breadth and depth of skills and knowledge of Web application technology and data access in Web applications.	Candidates for this certification must pass two exams, one focusing on .NET Framework 2.0 foundational skills and one focusing on Web-based client development.	Microsoft Corporation www.microsoft.com/learning
260	Microsoft Certified Technology Specialist (MCTS): .NET Framework 2.0 Windows Applications	MICRO049	Developers who hold the Microsoft Certified Technology Specialist: .NET Framework 2.0 Windows Applications certification have demonstrated breadth and depth of skills and knowledge of Windows Forms technology, in addition to expertise in data access in Microsoft Windows applications.	Candidates for this certification must pass two exams: one focuses on .NET Framework 2.0 foundational skills and the other focuses on Windows-based client development.	Microsoft Corporation www.microsoft.com/learning
261	Microsoft Certified Technology Specialist (MCTS): BizTalk Server 2006	MICRO050	Microsoft Certified Technology Specialists in BizTalk Server 2006 demonstrate expertise in deploying and managing a BizTalk Server 2006 solution and can create a BizTalk orchestration, integrate business rules and human workflow services, manage business processes, troubleshoot BizTalk solutions, and consume and publish Web services.	MCTS candidates must pass one exam that focuses on the design and development of distributed applications that use BizTalk Server 2006 in addition to the deployment and management of BizTalk Server 2006.	Microsoft Corporation www.microsoft.com/learning

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262	Microsoft Certified Technology Specialist (MCTS): SQL Server 2005	MICRO051	Microsoft Certified Technology Specialists in Microsoft SQL Server 2005 implement and maintain databases using specific instructions and specifications. They have thorough knowledge of the product, understand how to use the tools and Transact-SQL language, and know how to explore the user interface.	MCTS candidates must pass one exam that focuses on the implementation and maintenance of SQL Server 2005.	Microsoft Corporation www.microsoft.com/learning
263	Microsoft Certified Trainer (MCT)	MICRO052	Microsoft Certified Trainers (MCTs) are the premier technical and instructional experts in Microsoft products, technologies, and solutions. To ensure a superior learning experience for our customers, MCTs are the only individuals that Microsoft authorizes to deliver training that is based on Official Microsoft Learning Products or Microsoft Dynamics Learning Products for the MCT program.	Before an individual can apply to become a Microsoft Certified Trainer (MCT), they must acquire either one of the Microsoft Certified Professional (MCP) certifications or a Microsoft Dynamics qualifier for the MCT program. An individual must also demonstrate instructional presentation skills by fulfilling one of the following: Provide evidence of a Certified Technical Trainer (CompTIA CTT+) certification; attend and pass a presentation skills course; prove experience as a technical trainer; or prove experience as an instructor at an accredited academic institution.	Microsoft Corporation www.microsoft.com/learning
264	Microsoft Dynamics AX	MICRO053	This certification helps an individual demonstrate their proficiency in Microsoft Dynamics AX: a multilanguage, multicurrency enterprise resource planning (ERP) solution. With core strengths in manufacturing and e-business, there is an additional strong functionality for the wholesale and services industries.	An individual must pass a single certification exam.	Microsoft Corporation www.microsoft.com/learning
265	Microsoft Dynamics CRM	MICRO054	This certification helps an individual demonstrate their proficiency in Microsoft Dynamics CRM 4.0: a fully integrated customer relationship management (CRM) system. Microsoft Dynamics CRM gives an individual the capability to easily create and maintain a clear view of customers from first contact through purchase and post-sales.	An individual must pass a single certification exam.	Microsoft Corporation www.microsoft.com/learning
266	Microsoft Dynamics GP	MICRO055	This certification helps an individual demonstrate their proficiency in Microsoft Dynamics GP: a business management solution that provides growing and midsize organizations with complete and scalable financial and operational functionality, such as advanced consolidation, robust business intelligence, rich reporting, forecasting, and budgeting.	An individual must pass a single certification exam.	Microsoft Corporation www.microsoft.com/learning
267	Microsoft Dynamics NAV	MICRO056	This certification helps an individual demonstrate their proficiency in Microsoft Dynamics NAV: a business management solution for small and mid-sized organizations that helps simplify and streamline highly specialized business processes, rapidly adapting to unique ways of doing business.	An individual must pass a single certification exam.	Microsoft Corporation www.microsoft.com/learning
268	Microsoft Dynamics SL	MICRO057	This certification helps an individual demonstrate their proficiency in Microsoft Dynamics SL: a business management solution specialized to help project-driven midsize organizations obtain reports and business analysis, while helping increase efficiency, accuracy, and customer satisfaction.	An individual must pass a single certification exam.	Microsoft Corporation www.microsoft.com/learning

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269	Microsoft MCAS Bundle Certification	MICRO061	The Microsoft Certified Application Specialist (MCAS) certification, part of the new Microsoft Business Certification program, is the globally recognized standard for validating expertise with the 2007 Microsoft Office system of business productivity applications.	Four (4) of the following six (6) MCAS product exams are required: Microsoft Office Word 2007, Excel 2007, PowerPoint 2007, Access 2007, Outlook 2007, and Windows Vista operating system.	Microsoft Corporation www.microsoft.com/learning
270	Microsoft Office Master	MICRO017	Office Specialist exams provide a valid and reliable measure of technical proficiency and expertise by evaluating an individual's overall comprehension of Office or Microsoft Project programs, their ability to use their advanced features, and their ability to integrate the Office programs with other software programs.	Master Certification: Candidates must successfully complete three required exams: Word expert, Excel expert, and PowerPoint; and one elective exam: Access or Outlook.	Microsoft Corporation www.microsoft.com/learning
271	MSSC Certified Production Technician (CPT)	MSSCN001	The Manufacturing Skill Standards Council (MSSC) is an industry-led training, assessment and certification system focused on the core skills and knowledge needed by the nation's production workers. The MSSC Certified Production Technician (CPT) credential will set the quality standard in our nation's factories.	The credential is awarded to individuals who pass all four Production modules: Safety; Quality Practices & Measurement; Manufacturing Processes & Production; and Maintenance Awareness. The modules are a total of 140 hours full time, intensive. Each assessment contains 125 questions and takes about 90-120 minutes to complete.	The Manufacturing Skill Standards Council (MSSC) www.msscusa.org
272	MSSC Instructor Certification	MSSCN006	MSSC offers a three day training course to certify instructors in ways to teach MSSC courses in different learning environments. An instructor's package is provided with the following materials: PowerPoint presentations, facilitator notes, visuals, play maps, unit completion times, optional delivery methods, math problems and answers, and facilitator notes.	MSSC recommends the following criteria for teachers and trainers to be qualified for participation in three-day instructor certification training: Minimum of five years of experience in industrial training or teaching; Bachelors of Science and/or Engineering preferred; Review of MSSC Glencoe/McGraw-Hill text book (High Performance Manufacturing) and course outline prior to training; Good grasp of all four MSSC Course & Assessment Modules: Safety, Quality Practices and Continuous Improvement, Manufacturing Production & Processes, and Maintenance Awareness; Success in passing all four MSSC Modular Assessments, needed to receive an MSSC Production Technician Certificate either before or soon after Instructor Certification Training; and Competent technology/computer skills that permit instructor to use technology tools (e.g. PC, LCD, Overhead Projector, and Internet) in MSSC course delivery.	The Manufacturing Skill Standards Council (MSSC) www.msscusa.org
273	National Council for Interior Design Certification (NCIDC)	NCIDQ001	The National Council for Interior Design Qualification (NCIDQ) serves to identify to the public those interior designers who have met the minimum standards for professional practice by passing the NCIDQ Examination.	To qualify for the Interior Design Experience Program (IDEP) and take the exam an individual must complete one of the five education/work experience routes (see website for details). Participation in the Interior Design Experience Program (IDEP) consists of two to three years of curriculum and completion of the NCIDQ three part exam. All work experience used to satisfy the eligibility requirements must be in the field of interior design.	National Council for Interior Design Qualification www.ncidq.org

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274	National ProStart Certificate of Achievement	NRAEF002	The National Restaurant Association Educational Foundation (NRAEF) certification programs offer a professional credential achieved through completion of an in-depth course of study in the areas identified as crucial to performing a job. This may also include on-the job experience related to the course of study.	Individuals must complete year one and two of the industry-based ProStart sponsored culinary curriculum; and pass the end-of-year ProStart program examination. The ProStart program uses a comprehensive curriculum. The curriculum is a two year program that provides instruction in 25 subject areas, ranging from basic food preparation, accounting and cost control, to sanitation and workplace safety. The classroom comes alive with job-relevant lessons, and the workplace provides hands-on learning and training. A formal evaluation by a third party verifies the accuracy and completeness of the NRAEF's certification examinations and approves the accreditation of the NRAEF's certification programs. The third party also verifies the examination's validity and reliability.	National Restaurant Association Educational Foundation www.nraef.org
275	NCCER Carpentry - Level 1	NCCER005	Level One certification- Fundamentals	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
276	NCCER Carpentry - Level 2	NCCER032	Level Two certification- Framing and Finishing	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
277	NCCER Carpentry - Level 3	NCCER033	Level Three certification - Exterior Finishing, Roofing Applications, Stairs, Drywall, Interior Finish (Doors/ Ceilings).	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
278	NCCER Carpentry - Level 4	NCCER034	Level Four certification- Interior Finish, Cabinet Installation, Site Layout, Advanced Roof, Floor, Wall, and Stair Systems, Intro. to Light Equipment, and Welding.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
279	NCCER Concrete Finishing- Level 1	NCCER036	Level One certification: Intro. to Concrete Construction and Finishing, Safety Requirements, Tools and Equipment, Placing Concrete, Finishing, Curing and Protecting, and Intro. to Troubleshooting.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
280	NCCER Concrete Finishing- Level 2	NCCER037	Level Two certification: Properties of Concrete, Estimating Concrete Quantities, Forming, Site Concrete, Architectural Finishes, Industrial/Superflat Floors, Surface Treatments, Quality Control and Making Repairs.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
281	NCCER Construction Technology	NCCER008	Site Layout One; Intro. to Concrete and Reinforcing Materials; Handling and Placing Concrete, Intro. to Masonry; Masonry Units and Installation; Floor Systems; Wall and Ceiling Framing; Roof Framing; Roofing Applications; Exterior Finishing; Stairs; Electrical Safety; Wiring: Commercial and Industrial; Intro. to Drain Waste and Vent; Plastic Pipe and Fittings; and Copper Pipe and Fittings.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org

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282	NCCER Electrical - Level 1	NCCER010	Level One certification: Electrical Safety, Hand Bending, Fasteners and Anchors, Electrical Theory I and II, Electrical Test Equipment, Intro. to the National Electrical Code, Raceways, Boxings, and Fittings, Conductors, Intro. to Blueprints, and Wiring.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
283	NCCER Electrical- Level 2	NCCER038	Level Two certification: Alternating Current, Motors, Grounding, Conduit Bending, Boxes and Fittings, Conductor Installations, Cable Tray, Conductor Terminations and Splices, Installation, Circuit Breakers/ Fuses, Contractors and Relays, and Electric Lighting.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
284	NCCER Electrical- Level 3	NCCER039	Level Three certification: Load Calculators, Conductor Selection, Overcurrent Protection, Raceway, Box, and Fitting Fill, Wiring Devices, Distribution, Lamps and Components, Motor Calculations/ Maintenance and Control and Hazardous Locations.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
285	NCCER Electrical- Level 4	NCCER040	Level Four certification: Load Calculations, Applications of Lighting, Standby and Emergency Systems, Basic Electronic Theory, and more.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
286	NCCER Electronic Systems Technician- Level 1	NCCER013	Level One- Intro. to the Trade, Construction Materials and Methods, Pathways and Spaces, Fasteners and Anchors, Job Site Safety, Craft Related Math, Hand Bending of Conduit, and Low Voltage Cabling.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
287	NCCER Electronic Systems Technician- Level 2	NCCER041	Level Two- DC / AC Circuits, SemiConductors and Integrated Circuits, Basic Test Equipment, Power Quality and Grounding, Intro. to Electrical Blueprints, Switching Devices and Timers, Wire and Cable Terminations, Intro. to Codes and Standards, Computer Applications, and Advanced Test Equipment.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
288	NCCER Electronic Systems Technician- Level 3	NCCER042	Level Three- Cable Selection, Buses and Networks, Fiber Optics, Video Systems, Wireless Communication, Site Survey and Project Planning, Maintenance and Repair, Intro. Skills for the Crew Leader, and Rack Systems.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
289	NCCER Electronic Systems Technician- Level 4	NCCER043	Level Four- Fire Alarm Systems, Intrusion Detection, Audio Systems, Nurse Call and Signaling Systems, CCTV / Broadband Systems, Access Control, Systems Integration, and Media Management.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
290	NCCER Heating, Ventilation and Air Conditioning (HVAC) - Level 1	NCCER018	Level One- Intro. to HVAC, Trade Mathematics, Copper and Plastic Piping Practices, Soldering and Brazing, Ferrous Metal Piping Practices, Basic Electricity, Intro. to Cooling, Intro to Heating, and Air Distribution Systems.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org

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291	NCCER Heating, Ventilation and Air Conditioning (HVAC) - Level 2	NCCER081	Level Two- Commercial Airside Systems, Chimneys, Vents, and Flues, Intro. to the Hydronic Systems, Air Quality Equipment, Leak Detection, Evacuation, Recovery and Charging, Alternating Current, Basic Electronics, Intro. to Control Circuit Troubleshooting, Troubleshooting Gas Heating, Troubleshooting Cooling, Heat Pumps, Basic Installation and Maintenance Practices, Sheet Metal Duct Systems, and Fiberglass and Flexible Duct Systems.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
292	NCCER Heating, Ventilation and Air Conditioning (HVAC) - Level 3	NCCER082	Level Three- Planned Maintenance, Troubleshooting Gas Heating, Troubleshooting Electric Heating, Troubleshooting Oil Heating, Troubleshooting Cooling, Troubleshooting Heat Pumps, Troubleshooting Accessories, Troubleshooting Electronic Controls, Hydronic Heating and Cooling Systems, Airside Systems, and Air Properties and Air System Balancing.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
293	NCCER Heating, Ventilation and Air Conditioning (HVAC) - Level 4	NCCER083	Level Four- Construction Drawings and Specifications, Indoor Air Quality, Energy Conservation Equipment, Building Management Systems, Water Treatment, System Startup and Shutdown, Heating and Cooling System Design, and Commercial and Industrial Refrigeration.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
294	NCCER Heavy Equipment Operations - Level 1	NCCER017	Level One- Orientation to the Trade, Heavy Equipment Safety, Identification of Heavy Equipment, Basic Operational Techniques, Tractors, and Grades Part One.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
295	NCCER Heavy Equipment Operations - Level 2	NCCER067	Level Two- Intro to Earthmoving, Dump Trucks, Rollers, Scrapers, Loaders, Forklifts, Excavation Math, Grades Part Two, and Civil Blueprint Reading.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
296	NCCER Heavy Equipment Operations - Level 3	NCCER068	Level Three- Introductory Skills for the Crew Leader, Dozers, Backhoes, Excavators, Motor Graders, Advanced Operational Techniques, Finishing and Grading, and Soils.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
297	NCCER Masonry - Level 1	NCCER025	Level One- Intro. to Masonry, Tools and Equipment, Measurements and Drawings, Mortar, Units and Installation.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
298	NCCER Masonry - Level 2	NCCER044	Level Two- Residential Plans and Drawing Interpretation, Grout and Other Reinforcement, Metal Work in Masonry, Advanced Laying Techniques, Construction Techniques and Moisture Control, Inspection and Quality Control.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
299	NCCER Masonry - Level 3	NCCER045	Level Three- High Rise Construction, Repair and Restoration, Commercial Drawings, Estimating, and Project Planning and Supervision.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
300	NCCER Painting- Level 1	NCCER046	Level One certification- Careers in the Painting Trade, Safety, Protecting Surfaces, Sealants and Repairs, Paints and Coatings, etc.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org

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301	NCCER Painting- Level 2	NCCER047	Level Two certification- Job Planning and Completion, Chemical Cleaning and Stripping, Abrasive Blasting, Drywall Finishing, Stains, and Clear Finishes.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
302	NCCER Painting- Level 3	NCCER048	Level Three certification- Coatings III, Color and Tinting, Decorative Finishes, Wall covering, Graphics, Texturing, etc.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
303	NCCER Pipefitting - Level 1	NCCER049	Level One certification - Pipefitting Hand Tools, Power Tools, Ladders and Scaffolds, and Motorized Equipment.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
304	NCCER Pipefitting - Level 2	NCCER050	Level Two certification- Piping Systems, Drawings and Detail Sheets, Pipefitting Trade Math, Pipe Fabrication, and Excavation.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
305	NCCER Pipefitting - Level 3	NCCER051	Level Three certification- Rigging Equipment, Advanced Trade Math, Motorized Equipment II, Field Routing and Vessel Trim, and Testing Piping Systems.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
306	NCCER Pipefitting - Level 4	NCCER052	Level Four certification- Advanced Pipe Fabrication, Performing NDE Testing, Steam Traps, Stress Relieving and Aligning, Maintaining Valves, Hot Taps, and Special Piping.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
307	NCCER Plumbing - Level 1	NCCER026	Level One- Intro to the Plumbing Profession, Plumbing Safety, Plumbing Tools, Intro to Plumbing Math, Intro to Plumbing Drawings, Plastic Pipe and Fittings, Copper Pipe and Fittings, Cast-Iron Pipe and Fittings, Carbon Steel Pipe and Fittings, Corrugated Stainless Steel Tubing, Fixtures and Faucets, Intro to Drain, Waste, and Vent(DWV) Systems, and Intro to Water Distribution Systems.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
308	NCCER Plumbing - Level 2	NCCER069	Level Two- Plumbing Math Two, Reading Commercial Drawings, Hangers, Supports, Structural Penetrations, and Fire Stopping, Installing and Testing DWV Piping, Installing Roof, Floor, and Area Drains, Types of Valves, Installing and Testing Water Supply Piping, Installing Fixtures, Valves, and Faucets, Intro to Electricity, Installing Water Heaters, Fuel Gas Systems, and Servicing of Fixtures, Valves, and Faucets.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
309	NCCER Plumbing - Level 3	NCCER070	Level Three- Applied Math, Sizing Water Supply Piping, Potable Water Treatment, Backflow Preventers, Types of Venting, Sizing DWV and Storm Systems, Sewage Pumps and Sump Pumps, Corrosive-Resistant Waster Piping, and Compressed Air.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org

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310	NCCER Plumbing - Level 4	NCCER071	Level Four- Business Principles for Plumbers, Introductory Skills for the Crew Leader, Water Pressure Booster and Recirculation Systems, Indirect and Special Waste, Hydronic and Solar Heating Systems, Codes, Servicing Piping Systems, Fixtures, and Appliances, Private Water Supply Well Systems, Private Waste Disposal Systems, Swimming Pools and Hot Tubs, and Plumbing for Mobile Home and Travel Trailer Parks.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
311	NCCER Project Management	NCCER027	This management certification covers the following areas: Orientation to the Job; Human Relations; Negotiations; Problem Solving; Construction Documents; Construction Planning; Estimating; Scheduling; Cost Awareness and Control; Resource Control; Quality Control/TQM; and Safety.	89 hours of coursework (divided into 12 separate modules). After each module an individual must take a written test.	National Center for Construction Education & Research (NCCER) www.nccer.org
312	NCCER Roofer- Level 1	NCCER053	Level One- Nails, Fasteners, and Adhesives, Concrete and Reinforcement Materials, Fasteners, Hangers, and Supports, Sheet Metal Processes, Bolting and Aligning, and Rigging.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
313	NCCER Roofer- Level 2	NCCER054	Level Two- Roof Systems, Soldering, Gutters and Downspouts, Roof Flashing, Hand Tools, Power Tools, and Installing Roof Systems.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
314	NCCER Roofer- Level 3	NCCER055	Level Three- Intro. to Welding, Brazing, and Cutting, Roofing Applications, Installation of Cornices, Gutters and Downspouts, Fabrication II, and Reroofing.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
315	NCCER Roofer- Level 4	NCCER056	Level Four- Shop Production, and Fabrication IV.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
316	NCCER Sheet Metal - Level 1	NCCER057	Level One- Intro. to Sheet Metal Trade, Fasteners, Hangers and Supports, Installation of Air Distribution, Insulation, Intro. to Sheet Metal Layout, Trade Math One, and Fabrication One.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
317	NCCER Sheet Metal - Level 2	NCCER058	Level Two: Trade Math Two, Basic Piping Practices, Fabrication Two, Bend Allowances, Blueprints, Air Properties and Distribution, Sheet Metal Duct Fabrication, Soldering, and Fiberglass Duct.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
318	NCCER Sheet Metal - Level 3	NCCER059	Level Three- Trade Math III, Air Systems, Intro. to Welding, Cutting, and Brazing, Principles of Refrigeration/ Airflow, Comprehensive Blueprint and Specific Reading, Fabrication III, and Architectural Sheet Metal.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
319	NCCER Sheet Metal - Level 4	NCCER060	Level Four- Shop Production, Air Balance, Louvers, Dampers and Access Doors, Fume and Exhaust System and Design, Fabrication IV, and Intro. Skills for the Crew Leader.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org

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320	NCCER Welder - Level 1	NCCER061	Level One- Welding Safety, Oxyfuel Cutting, Base Cutting Preparation, Weld Quality, Groove Welds, Open Root Pipes, Joint Fit-Up and Alignment.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
321	NCCER Welder - Level 2	NCCER062	Level Two- Welding Symbols, Reading Detail Drawings, Stainless Steel Groove and Pipe, Air Carbon Arc Cutting, Plasma Arc Cutting, Equipment and Filler Metals, and Plates.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
322	NCCER Welder - Level 3	NCCER063	Level Three- Heat Treatment, Gas Metal Arc Welding, Flux Cored Arc Welding, and Gas Tungsten Arc Welding.	The CORE: Intro. to Craft Skills certification is required for all NCCER trades. In addition, after each module (of each Level) an individual is required to take a written and performance test.	National Center for Construction Education & Research (NCCER) www.nccer.org
323	NIMS Certified Machinist	NIFMS011	The National Institute for Metalworking Skills (NIMS) is the nation's only ANSI accredited developer of precision manufacturing skill standards and competency assessments. NIMS certifies individual skills against standards and accredits programs that meet its quality requirements. Sheet metal workers make, install, and maintain heating, ventilation, and air-conditioning duct systems; roofs; siding; rain gutters; downspouts; skylights; restaurant equipment; outdoor signs; railroad cars; tailgates; customized precision equipment; and many other products made from metal sheets. They also may work with fiberglass and plastic materials.	Skills in the metalworking industry are certified through the earning of NIMS credentials. The credentials are awarded on satisfactory completion of both performance tests and related theory exams. i.e. There are eight distinct credentials in Machining Level I. There are seven distinct credentials in Metal Stamping Level II. There are a total of 48 credentials in this area; to become a NIMS Certified Machinist, the "apprentice" must earn 12 NIMS credentials.	National Institute for Metalworking Skills (NIMS) www.nims-skills.org
324	NDT Certificate Electro-magnetic Testing (ET) - Level III	ASNDT002	The ASNT Level III program provides third-party certification for NDT and predictive maintenance (PdM) personnel whose specific jobs require appropriate knowledge of the technical principles underlying the tests they perform, witness, monitor, or evaluate.	ASNT Level III applicants must satisfy one of the following eligibility criteria: (1) have graduated from a four-year US college or university with a degree in engineering or science plus one year (12 months) of experience in NDT in an assignment comparable to that of an Level II in the applicable NDT method(s); or (2) have passed at least two years of engineering or physical science study at a university, college, or technical school, plus two years (24 months) of experience; or (3) have four years (48 months) of experience in an assignment at least comparable to that of a Level II in the applicable NDT method(s). ASNT NDT Level III certification candidates are required to pass both the NDT Basic and Method examinations.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
325	NDT Certificate Liquid Penetrant (PT) - Level II	ASNDT003	ASNT Central Certification Program(ACCP) Level II shall have the skills and knowledge to set up and calibrate equipment, to conduct tests, and to interpret, evaluate, and document results. ACCP Level II shall be familiar with the scope and limitations of the method to which certified and should be capable of directing the work of trainees and Level I personnel. Be able to organize and report NDT results, capable of developing an NDT instruction in conformance with a procedure, and be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level II in the applicable test method(s).	To be eligible for examination, Level II candidates must have met minimum training requirements and submit documentation of the hours claimed. Training hours may include both practical and theory courses. Candidates must pass a visual acuity examination no earlier than 12 months before submitting the application. There are four examinations applicants must pass: General Written Examination, Specific Written Examination, Practical Examination, and Instruction Preparation.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm

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326	NDT Certificate Liquid Penetrant (PT) - Level III	ASNDT004	ACCP Professional Level III shall have the skills and knowledge to establish techniques, to interpret codes, standards, and specifications, to designate the particular technique to be used, and to prepare or approve procedures and instructions. – general familiarity with other NDT methods and capable of conducting or directing the training and examination of NDT personnel in the methods for which the ACCP Professional Level III is qualified. – have knowledge of materials, fabrication, and product technology in order to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. – be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level III in the applicable test method(s).	Level III candidates must satisfy one of the following sets of criteria: (1) have graduated from a four-year US college or university with a degree in engineering or science plus one (1) additional year of experience above the level II requirements in NDT in an assignment comparable to that of an NDT Level II in the applicable NDT method(s); or (2) have passed at least two years of engineering or science study at a university, college, or technical school, plus two(2) additional years of experience above the level II requirements; or (3) have four (4) years of experience above the level II requirements in NDT in an assignment at least comparable to that of an NDT Level II in the applicable NDT method(s). In addition to the prerequisite Level II qualifications and experience, Level III must pass the following four examinations: Basic Examination, Method Examination, Practical Examination, and Procedure Preparation Examination.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
327	NDT Certificate Magnetic Particle Testing (MT) - Level II	ASNDT005	ACCP Level II shall have the skills and knowledge to set up and calibrate equipment, to conduct tests, and to interpret, evaluate, and document results. ACCP Level II shall be familiar with the scope and limitations of the method to which certified and should be capable of directing the work of trainees and Level I personnel. Be able to organize and report NDT results, capable of developing an NDT instruction in conformance with a procedure, and be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level II in the applicable test method(s).	To be eligible for examination, Level II candidates must have met minimum training requirements and submit documentation of the hours claimed. Training hours may include both practical and theory courses. Candidates must pass a visual acuity examination no earlier than 12 months before submitting the application. There are four examinations applicants must pass: General Written Examination, Specific Written Examination, Practical Examination, and Instruction Preparation.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
328	NDT Certificate Magnetic Particle Testing (MT) - Level III	ASNDT006	ACCP Professional Level III shall have the skills and knowledge to establish techniques, to interpret codes, standards, and specifications, to designate the particular technique to be used, and to prepare or approve procedures and instructions. – general familiarity with other NDT methods and capable of conducting or directing the training and examination of NDT personnel in the methods for which the ACCP Professional Level III is qualified. – have knowledge of materials, fabrication, and product technology in order to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. – be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level III in the applicable test method(s).	Level III candidates must satisfy one of the following sets of criteria: (1) have graduated from a four-year US college or university with a degree in engineering or science plus one (1) additional year of experience above the level II requirements in NDT in an assignment comparable to that of an NDT Level II in the applicable NDT method(s); or (2) have passed at least two years of engineering or science study at a university, college, or technical school, plus two(2) additional years of experience above the level II requirements; or (3) have four (4) years of experience above the level II requirements in NDT in an assignment at least comparable to that of an NDT Level II in the applicable NDT method(s). In addition to the prerequisite Level II qualifications and experience, Level III must pass the following four examinations: Basic Examination, Method Examination, Practical Examination, and Procedure Preparation Examination.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
329	NDT Certificate Radiographic Testing (RT) - Level II	ASNDT007	ACCP Level II shall have the skills and knowledge to set up and calibrate equipment, to conduct tests, and to interpret, evaluate, and document results. ACCP Level II shall be familiar with the scope and limitations of the method to which certified and should be capable of directing the work of trainees and Level I personnel. Be able to organize and report NDT results, capable of developing an NDT instruction in conformance with a procedure, and be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level II in the applicable test method(s).	To be eligible for examination, Level II candidates must have met minimum training requirements and submit documentation of the hours claimed. Training hours may include both practical and theory courses. Candidates must pass a visual acuity examination no earlier than 12 months before submitting the application. There are four examinations applicants must pass: General Written Examination, Specific Written Examination, Practical Examination, and Instruction Preparation.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm

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330	NDT Certificate Radiographic Testing (RT) - Level III	ASNDT008	ACCP Professional Level III shall have the skills and knowledge to establish techniques, to interpret codes, standards, and specifications, to designate the particular technique to be used, and to prepare or approve procedures and instructions. – general familiarity with other NDT methods and capable of conducting or directing the training and examination of NDT personnel in the methods for which the ACCP Professional Level III is qualified. – have knowledge of materials, fabrication, and product technology in order to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. – be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level III in the applicable test method(s).	Level III candidates must satisfy one of the following sets of criteria: (1) have graduated from a four-year US college or university with a degree in engineering or science plus one (1) additional year of experience above the level II requirements in NDT in an assignment comparable to that of an NDT Level II in the applicable NDT method(s); or (2) have passed at least two years of engineering or science study at a university, college, or technical school, plus two(2) additional years of experience above the level II requirements; or (3) have four (4) years of experience above the level II requirements in NDT in an assignment at least comparable to that of an NDT Level II in the applicable NDT method(s). In addition to the prerequisite Level II qualifications and experience, Level III must pass the following four examinations: Basic Examination, Method Examination, Practical Examination, and Procedure Preparation Examination.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
331	NDT Certificate Ultrasonic Testing (UT) - Level II	ASNDT009	ACCP Level II shall have the skills and knowledge to set up and calibrate equipment, to conduct tests, and to interpret, evaluate, and document results. ACCP Level II shall be familiar with the scope and limitations of the method to which certified and should be capable of directing the work of trainees and Level I personnel. Be able to organize and report NDT results, capable of developing an NDT instruction in conformance with a procedure, and be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level II in the applicable test method(s).	To be eligible for examination, Level II candidates must have met minimum training requirements and submit documentation of the hours claimed. Training hours may include both practical and theory courses. Candidates must pass a visual acuity examination no earlier than 12 months before submitting the application. There are four examinations applicants must pass: General Written Examination, Specific Written Examination, Practical Examination, and Instruction Preparation.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
332	NDT Certificate Ultrasonic Testing (UT) - Level III	ASNDT010	ACCP Professional Level III shall have the skills and knowledge to establish techniques, to interpret codes, standards, and specifications, to designate the particular technique to be used, and to prepare or approve procedures and instructions. – general familiarity with other NDT methods and capable of conducting or directing the training and examination of NDT personnel in the methods for which the ACCP Professional Level III is qualified. – have knowledge of materials, fabrication, and product technology in order to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. – be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level III in the applicable test method(s).	Level III candidates must satisfy one of the following sets of criteria: (1) have graduated from a four-year US college or university with a degree in engineering or science plus one (1) additional year of experience above the level II requirements in NDT in an assignment comparable to that of an NDT Level II in the applicable NDT method(s); or (2) have passed at least two years of engineering or science study at a university, college, or technical school, plus two(2) additional years of experience above the level II requirements; or (3) have four (4) years of experience above the level II requirements in NDT in an assignment at least comparable to that of an NDT Level II in the applicable NDT method(s). In addition to the prerequisite Level II qualifications and experience, Level III must pass the following four examinations: Basic Examination, Method Examination, Practical Examination, and Procedure Preparation Examination.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
333	NDT Certificate Visual Testing (VT) - Level II	ASNDT011	ACCP Level II shall have the skills and knowledge to set up and calibrate equipment, to conduct tests, and to interpret, evaluate, and document results. ACCP Level II shall be familiar with the scope and limitations of the method to which certified and should be capable of directing the work of trainees and Level I personnel. Be able to organize and report NDT results, capable of developing an NDT instruction in conformance with a procedure, and be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level II in the applicable test method(s).	To be eligible for examination, Level II candidates must have met minimum training requirements and submit documentation of the hours claimed. Training hours may include both practical and theory courses. Candidates must pass a visual acuity examination no earlier than 12 months before submitting the application. There are four examinations applicants must pass: General Written Examination, Specific Written Examination, Practical Examination, and Instruction Preparation.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm

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334	NDT Certificate Visual Testing (VT) - Level III	ASNDT012	ACCP Professional Level III shall have the skills and knowledge to establish techniques, to interpret codes, standards, and specifications, to designate the particular technique to be used, and to prepare or approve procedures and instructions. – general familiarity with other NDT methods and capable of conducting or directing the training and examination of NDT personnel in the methods for which the ACCP Professional Level III is qualified. – have knowledge of materials, fabrication, and product technology in order to establish techniques and to assist in establishing acceptance criteria when none are otherwise available. – be knowledgeable in the NDT subject matter contained in the NDT Body of Knowledge for Level III in the applicable test method(s).	Level III candidates must satisfy one of the following sets of criteria: (1) have graduated from a four-year US college or university with a degree in engineering or science plus one (1) additional year of experience above the level II requirements in NDT in an assignment comparable to that of an NDT Level II in the applicable NDT method(s); or (2) have passed at least two years of engineering or science study at a university, college, or technical school, plus two(2) additional years of experience above the level II requirements; or (3) have four (4) years of experience above the level II requirements in NDT in an assignment at least comparable to that of an NDT Level II in the applicable NDT method(s). In addition to the prerequisite Level II qualifications and experience, Level III must pass the following four examinations: Basic Examination, Method Examination, Practical Examination, and Procedure Preparation Examination.	The American Society for Non-Destructive Testing (ASNT) www.asnt.org/certification/certification.htm
335	Occupational Health and Safety Technologist (OHST)	CCHES001	These certification programs offer recognition among safety and health practitioners, demonstrate competence to employers and others, increase employee confidence in occupational health and safety programs, help improve company profitability through reduced incidents and losses, and enhance the company image. Typical individuals are involved in safety inspections, industrial hygiene monitoring, safety and health training, investigating and maintaining records and similar functions.	Individuals must work part-time or full-time in safety and health (35% is the minimum); Have duties that require technical skills and knowledge in safety and health; Must have five years of experience in safety and health; and Must pass the OHST examination. Candidates may substitute college courses in health and safety or an associate degree or higher in certain disciplines for some or all of the experience requirement. Students in associate or higher degree programs in occupational safety and health may sit for the examination during their last semester. The exam has 200 multiple-choice questions, some involving computations. Candidates have four hours to complete the examination.	Council on Certification of Health, Environmental and Safety Technologists www.cchest.org
336	Operator Certification	CSADA001	Operator Certification is an intensive program that educates operators in the correct applications and techniques for safe, competent operation of sawing and drilling equipment.	Successful completion of the CSDA Cutting Edge six-day training program; 4500 hrs field experience; 10-hour OSHA Safety Course; and an unrestricted driver's license.	Concrete Sawing and Drilling Association www.csda.org
337	Oracle Certified Associate (OCA)	ORACL001	Oracle Database extends Oracle's unique ability to deliver the benefits of grid computing with more self-management and automation. This certification combines training, experience, and testing to ensure that an individual has a strong foundation and expertise in the industry's most advanced database management system.	Introduction to Oracle9i: SQL 1Z0-007 exam; Oracle Database 11g: SQL Fundamentals I 1Z0-051 or Oracle Database SQL Expert 1Z0-047 exam (one of the three is required). In addition the Oracle Database 11g: Administration I 1Z0-052 exam is required.	Oracle Corporation www.oracle.com
338	Oracle Certified Master (OCM)	ORACL003	Oracle Database extends Oracle's unique ability to deliver the benefits of grid computing with more self-management and automation. This certification combines training, experience, and testing to ensure that an individual has a strong foundation and expertise in the industry's most advanced database management system.	Complete one of the approved instructor-led online or in-class courses; pass the Oracle Database Certified Master Exam; and submit the Hands-on Course Requirement Form.	Oracle Corporation www.oracle.com
339	Oracle Certified Professional (OCP)	ORACL002	Oracle Database extends Oracle's unique ability to deliver the benefits of grid computing with more self-management and automation. This certification combines training, experience, and testing to ensure that an individual has a strong foundation and expertise in the industry's most advanced database management system.	Complete one of the approved instructor-led online or in-class courses; pass the Oracle Database exam: Administration II 1Z0-053 exam; and submit the Hands On Course Requirement Form.	Oracle Corporation www.oracle.com

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340	Photovoltaic (PV) Entry Level Certificate of Knowledge	NBCEP001	The NABCEP Entry Level Certificate Program is designed for those individuals wanting to get into the solar field. It is a way for them to show they have achieved basic knowledge comprehension and application of key terms and concepts of photovoltaic (solar electric) system operations. Successful candidates achieving the PV Entry Level Certificate of Knowledge will have the basic knowledge of solar electricity suitable for a supervised, entry level position with a dealer and/or installer or other PV industry company.	A candidate for the Certificate will have to complete the course and pass a NABCEP-issued exam that has a two-hour time limit and consists of sixty (60) multiple choice questions.	North American Board of Certified Energy Practitioners (NABCEP) www.nabcep.org
341	PHR® (Professional in Human Resources)	HRCIS001	PHR, SPHR, and GPHR certification shows that the holder has demonstrated mastery of the domestic or international HR body of knowledge and , through recertification, has accepted the challenge to stay informed of new developments in the HR field.	Candidates should have a minimum of two years of professional HR experience and provide evidence that at least 51% of daily activities are within the HR function at the exempt level (professional). Pass a 4 hour 225 multiple-choice question exam with a passing score of 500 (the minimum possible score is 100 and maximum is 700).	Human Resource Certification Institute Society for Human Resource Management www.hrci.org/certification/ov/
342	Physical Therapists Assistant (PTA)	AMPTA001	Physical therapist assistants (PTAs) work under the supervision of a physical therapist (PT). Following examination and evaluation, the physical therapist designs individualized treatment programs for patients and clients. The PTA helps in providing these treatment interventions, reporting the patient's progress and response to treatment to the Physical Therapist as well as documenting in the patient's medical record.	Physical Exam; Certification in Life Support and First Aid (offered by Red Cross or the American Heart Assoc.); and 41 credit hours in specified courses (i.e. Biological sciences, Health Education, etc). (This is an Associate in Applied Science degree).	American Physical Therapists Association (APTA) www.apta.org
343	Precision Sheetmetal Operator - Level I (PSMO)	FMAIN001	FMA's certification program: provides objective evidence of a person's expertise in shearing, sawing, press brake, turret punch press, laser cutting, and mechanical finishing; assists manufacturing organizations in selecting, promoting, and retaining workers; and helps manufacturing organizations improve productivity, quality, and scrap rates.	Applicants must meet the following minimum requirements for certification: one to two years experience as a machine operator; or one to two years of technical training from an accredited program; or successful completion of a one year formally-recognized apprenticeship program in precision sheet metal. Pass a 100 question exam covering 13 topic areas: Metals, Metallurgy, and Metal Working Processes; Paperwork and Documentation; Math Calculations for Sheet Metal Fabrication; Blueprint Reading and Part Layout; Computer/Part Program; Machine Set Up, Functioning, and Operation; Hand Tools; Inspection/Quality Control; Inspection Tools; Tooling/Dies/Jigs/Fixtures; Material and Product Handling; Safety Checks, Equipment, and Procedures; and Preventive Maintenance on Equipment and Tools.	Fabricators & Manufacturers Association, International (FMA) www.fmanet.org
344	Professional Certified Investigator	ASINS001	The Professional Certified Investigator (PCI) certification will help employers identify those professionals who have the specific, in-depth competency and knowledge required.	Candidates must satisfy the following requirements to sit for the PCI examination: (1) Five years of investigations experience, with at least 2 years in case management. (2) A high school diploma or GED equivalent. The investigations examination is targeted to security professional whose primary responsibility is to conduct investigations. It consists of multiple-choice questions covering tasks, knowledge, and skills in: case management, evidence collection, and case presentation. The candidate must pass the exam with a minimum score of 650 on a scale of 200-800.	American Society for Industrial Security www.asionline.org

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345	Professional Legal Secretary (PLS)	NALSC001	The purpose of the examination is to certify a lawyer's assistant as a person who possesses: a mastery of office skills; the ability to interact on a professional level with attorneys, clients, and other support staff; the discipline to assume responsibility and exercise initiative and judgment, and a working knowledge of procedural law, the law library, and how to prepare legal documents.	Any person who has had three years of experience in the legal field may take the examination. A partial waiver of the three-year legal experience requirement may be granted for post-secondary degrees, successful completion of the ALS exam, or other certifications. The maximum waiver is one year. The PLS Certification Exam Covers: Part 1: Written Communications Part 2: Office Procedures and Technology Part 3: Ethics and Judgment Part 4: Legal Knowledge and Skills	National Association of Legal Secretaries Resource Center www.nals.org
346	Protective Coatings Certification	SOCPC001	The SSPC Protective Coatings Specialist has the knowledge and experience to: assess industrial coating systems service performance; manage or oversee coating failure analysis; develop coating specifications for new construction and/or maintenance coating; develop industrial painting specifications that address relevant safety and environmental regulations and facility constraints; and evaluate field and shop coating work procedures.	Five years coatings experience and Bachelor's degree; or seven years coatings experience and Associate's degree; or ten years coatings experience and high school graduation or GED. Pass the Fundamentals of Protective Coatings (C-1) course exam and take the Specifying and Managing Protective Coatings Projects (C-2) course and pass the course exam.	Society for Protective Coatings www.sspc.org
347	Quality Engineer -CQE	AMSFQ005	The Certified Quality Engineer is a professional who understands the principles of product and service quality evaluation and control.	Eight years of on-the-job experience with a minimum of three years in a decision-making position and pass a five-hour written exam that consists of 160 multiple-choice questions that measures the comprehension of the Body of Knowledge (Management and Leadership, The Quality System, Product and Process Design, Product and Process Control, Continuous Improvement, and Quantitative Methods and Tools).	American Society for Quality (ASQ) www.asq.org/store/training-certification
348	Quality Improvement Associate - CQIA	AMSFQ006	The Certified Quality Improvement Associate has a basic knowledge of quality tools and their uses and is involved in quality improvement projects.	Two years of work experience or an associate degree and pass a three-hour written exam that consists of 100 multiple-choice questions that measure the comprehension of the Body of Knowledge (Quality Basics, Teams, and Continuous Improvement).	American Society for Quality (ASQ) www.asq.org/store/training-certification
349	Quality Inspector - CQI	AMSFQ007	The Certified Quality Inspector, in support of and under the direction of quality engineers, supervisors, or technicians, evaluates hardware documentation, performs laboratory procedures, inspects products, measures process performance, records data and prepares formal reports.	Two years of on-the-job experience in mechanical inspection or a related field; a high school diploma or GED, or an additional three years of related on-the-job experience. Pass a four-hour written exam that consists of 100 multiple-choice questions that measure the comprehension of the Body of Knowledge (Technical Mathematics, Metrology, Inspection and Test and Quality Assurance).	American Society for Quality (ASQ) www.asq.org/store/training-certification
350	Quality Process Analyst - CQPA	AMSFQ008	The Certified Quality Process Analyst is a paraprofessional, in support of and under the direction of quality engineers or supervisors, analyzes and solves quality problems and is involved in quality improvement projects.	Two years of work experience or an associate degree and pass a four-hour written exam that consists of 100 multiple-choice questions that measure the comprehension of the Body of Knowledge (Quality Basics, Problem Solving and Improvement, Data Analysis, and Customer-Supplier Relations).	American Society for Quality (ASQ) www.asq.org/store/training-certification

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351	Quality Technician - CQT	AMSFQ009	The Certified Quality Technician is a paraprofessional, in support of and under the direction of quality engineers or supervisors, analyzes and solves quality problems, prepares inspection plans and instructions, selects sampling plan applications, prepares procedures, trains inspectors, performs audits, analyzes quality costs and other quality data, and applies fundamental statistical methods for process control.	At least four years of higher education and/or work experience and pass a four-hour written exam that consists of 100 multiple-choice questions that measure the comprehension of the Body of Knowledge (Quality Concepts and Tools, Statistical Techniques, Metrology and Calibration, Inspection and Test, Quality Audits, and Preventive and Corrective Action).	American Society for Quality (ASQ) www.asq.org/store/training-certification
352	Radar Electronics Technician (RAD)	ETAIN007	Radar electronics technicians are expected to obtain knowledge of radar basics and concepts which are applicable to all of the various types of avionics, maritime and land Radar systems.	A technician with two or more years of combined work and electronics training may apply for the Journeyman exam. To be a fully Certified Electronics Technician, an entire certification exam must be passed, which consists of the Associate level exam, plus one of the specialized Journeyman options. This exam deals with advanced practice and theory applicable to the electronics specialty selected. The Journeyman level exam is a two hour exam and the applicant must score at least 75% on both the Associate and the Journeyman exams to pass. A technician who has a valid Associate certification will be required to write only the Journeyman option.	Electronics Technician Association www.eta-i.org/CertsGroups.html
353	Registered Cardiac Sonographer (RCS)	CCINT002	Registered Cardiac Sonographers (RCS) specialize in echocardiography. The Cardiovascular portion of this certification covers: General Concepts; Patient Care; General Anatomy & Physiology; Cardiovascular Anatomy & Physiology; and Quality Assurance/Control. The Non-Invasive Echo portion covers: Patient Management and Clinical Medicine; Ultrasound Physics and Instrumentation; Pathophysiology of Cardiovascular Disease; Two-dimensional and M-mode Echocardiography; Cardiac Doppler and Color Flow Echocardiography; Advanced Techniques in Echocardiography; and other Non-Invasive Modalities.	Individuals must pass (or receive exemption from) the Cardiovascular Science Examination and pass Non-Invasive Echo Registry Examination.	Cardiovascular Credentialing International www.cci-online.org
354	Registered Diagnostic Cardiac Sonographer (RDCS)	ARDMS001	The American Registry of Diagnostic Medical Sonography (ARDMS) promotes quality care and patient safety through the certification and continuing competency of ultrasound professionals. The RDCS credential offers four specialty area examinations: Cardiovascular Principles & Instrumentation Physics, Adult Echocardiography, Fetal Echocardiography, and Pediatric Echocardiography.	To be eligible for a RCDS credential applicants must meet specific educational and professional experience requirements before an applicant can take an ARDMS examination. There are four prerequisites with six total options under which to apply. Each prerequisite requires (1) the appropriate educational background, (2) necessary clinical ultrasound or vascular experience and (3) required documentation that must be submitted with the application. Applicants are then required to pass two comprehensive examinations to earn a credential: (1) a physical principles and instrumentation examination that is two hours long and contain approximately 120 multiple-choice questions and (2) at least one corresponding specialty examination that is three hours long and contain approximately 150 to 170 multiple choice questions and video cases.	American Registry of Diagnostic Medical Sonographers (ARDMS) www.ardms.org

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355	Registered Diagnostic Medical Sonographer (RDMS)	ARDMS002	Diagnostic medical sonographers, also known as ultrasonographers, use special equipment to direct nonionizing, high frequency sound waves into areas of the patient's body. Sonographers operate the equipment, which collects reflected echoes and forms an image that may be videotaped, transmitted, or photographed for interpretation and diagnosis by a physician. This certification covers the following areas: Physics & Instrumentation; Technique in Neurosonography; Anatomy & Physiology; Recognition of Pathology and Differential Diagnosis; and Medical Care of the Neonate During Scanning.	Meet specific educational and professional experience requirements (see web for details). Specialty areas within the RDMS credential include the examinations listed below: Ultrasound Physics and Instrumentation; Abdomen; Breast; Fetal Echocardiography; Neurosonology; and Obstetrics & Gynecology. Colleges and Universities offer formal training in both two and four-year programs, culminating in an associate or a bachelor's degree. Two-year programs are most prevalent. The Neurosonology exam is three hours long and contains approximately 170 multiple-choice questions.	American Registry of Diagnostic Medical Sonographers www.ardms.org
356	Registered Diplomate Reporter	NCRAS005	The Registered Diplomate Reporter (RDR) is the highest level of certification available to court reporters. This certification program was developed to allow high-level, seasoned reporters to distinguish themselves as members of the profession's elite.	To sit for the RDR exam, a candidate must be an Registered Merit Reporter (RMR) and have 6 current and continuous years of membership with NCRA. The RDR exam is a written knowledge test consisting of 105-multiple choice questions that focuses on six areas: reporting, transcript production, management, education, marketing, and professional issues. The minimum passing scaled score is 70 or better.	National Court Reporters Association www.ncraonline.org
357	Registered Health Information Technician (RHIT)	AHIMA009	RHITs are health information technicians who ensure the quality of medical records by verifying their completeness, accuracy, and proper entry into computer systems. They may also use computer applications to assemble and analyze patient data for the purpose of improving patient care or controlling costs. The RHITs often specialize in coding diagnoses and procedures in patient records for reimbursement and research. RHITs may serve as cancer registrars, compiling and maintaining data on cancer patients. With experience, the RHIT credential holds solid potential for advancement to management positions, especially if it is combined with a bachelor's degree.	Candidates must meet one of the following eligibility requirements for the RHIT examination: Have successfully met the academic requirements of a health information management (HIM) program at the associate degree level accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM), or the qualifications of such a program at the candidate's graduation must have met the requirements of the designated accrediting authority for an accredited program; or have graduated from a program for HIM approved by a foreign association with which there is an agreement of reciprocity; or have a certificate of completion in health information technology from the AHIMA Independent Study Program (ISP) and an associate's degree from an accredited college or university.	American Health Information Management Association www.ahima.org/certification/index.asp
358	Registered Medical Assistant (RMA)	AMEDT004	Medical assistants are able to advance to office manager or a variety of administrative duties and may teach medical assisting courses after a number of years of experience. Some medical assistants return to school for more education to become nurses, medical laboratory technicians, medical technologists or enter into other health related occupations.	Applicants must be a graduate of, or scheduled to graduate from: a medical assistant program that holds programmatic accreditation by the Accrediting Bureau of Health Education Schools (ABHES) or the Commission on Accreditation of Allied Health Education Programs (CAAHEP); a medical assistant program in a post-secondary school or college that has institutional accreditation by a Regional Accrediting Commission or by a national accrediting organization approved by the U.S. Department of Education, which program includes a minimum of 720 clock-hours (or equivalent) of training in Medical Assisting skills (including a clinical externship); or a formal medical services training program of the United States Armed Forces. Applicant must have been employed in the profession of Medical Assisting for a minimum of five (5) years.	American Medical Technologists (AMT) www.amt1.com

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359	Registered Merit Reporter	NCRAS004	An individual who has established themselves as a Registered Professional Reporter (RPR) next step to becoming an advanced-level court reporter is by passing the Registered Merit Reporter (RMR) Exam.	To earn a Registered Merit Reporter, you must pass a written knowledge test and a skills test. To apply for the RMR skills test you must be a member of NCRA and an RPR. To apply for the RMR written knowledge test a member must be an RPR and have 3 years of current and continuous membership. The RMR exam consists of a 90 minute, 105-question written knowledge test and a scaled score of 70 or better is required to pass. The skills test evaluates you in three areas: Literary at 200 wpm; Jury Charge at 240 wpm; and Testimony/Q&A at 260 wpm. You then have 75 minutes to transcribe notes from each leg with 95% accuracy on each leg to pass.	National Court Reporters Association www.ncraonline.org
360	Registered Professional Reporter	NCRAS003	The Registered Professional Reporter (RPR) program is the only nationally recognized certification program that establishes your competence as a reporter. The RPR is your first step toward your success as a court reporter.	To become an RPR, you must have the knowledge, skills, and ability to produce a high-quality verbatim record. The Written Knowledge Test is a 90 minute 105-question, multiple-choice test and a student must pass with a scaled score of 70 or better. A student must also pass three sections of a skills test that evaluates you in three areas: Literary at 180 wpm; Jury Charge at 20 wpm; and Testimony/Q&A at 225 wpm. After dictation the student is given 75 minutes to transcribe notes from each leg and must have 95% accuracy on each leg to pass.	National Court Reporters Association www.ncraonline.org
361	Registered Technologist - Quality Management (RT)	AMRRT005	Employers, state licensing agencies, and federal regulators look at the ARRT credential as an indicator that a person has met a recognized national standard for medical imaging and therapy professionals.	Every candidate for certification and every applicant for renewal of registration, according to the governing documents, must not have engaged in conduct that is inconsistent with the ARRT Rules of Ethics. Candidates must also demonstrate competency in didactic coursework and an ARRT-specified list of clinical procedures. Finally, an individual must pass an examination developed and administered by the ARRT.	American Registry of Radiologic Technologists
362	Reliability Engineer - CRE	AMSFQ010	The Certified Reliability Engineer is a professional who understands the principles of performance evaluation and prediction to improve product/systems safety, reliability and maintainability.	Eight years of on-the-job experience with a minimum of three years in a decision-making position and pass a four-hour written exam that consists of 150 multiple-choice questions that measures the comprehension of the Body of Knowledge (Reliability Management, Probability and Statistics for Reliability, Reliability in Design and Development, Reliability Modeling and Predictions, Reliability Testing, Maintainability and Availability, and Data Collection and Use).	American Society for Quality (ASQ) www.asq.org/store/training-certification
363	Residential Accredited Appraiser (RAA)	NATAR001	An RAA is a highly trained professional who demonstrates comprehensive skills and knowledge of agriculturally based property; possesses education and experience in establishing value of agricultural and rural properties; adheres to the requirements of the Uniform Standards of Professional Appraisal Practice (US PAP); and understands highly improved and complex properties.	An Institute Affiliate member must be a designee of one of the five National Association of Realtors (NAR) affiliates. State Certified Residential or General Appraiser for RAA designation. A minimum of 1,000 hours experience in addition to the experience required to obtain state certification. Tested education: 45 hours (for the RAA) of tested course work in addition to the Appraiser Qualification Board's education requirement at the time of certification.	National Association of Realtors www.realtor.org
364	Residential Air Conditioning and Heating Certification (ARI)	ACARI001	Certification offered by ARI and referred to as one of its Industry Competency Exams (ICE). It measures industry-agreed standards of basic competency for entry-level (one-year experience or less) technicians in the area of Residential Air Conditioning and Heating (equipment consists of five-ton systems or smaller).	Pass an exam that contains 100 multiple-choice questions covering the ARI curriculum guide for Residential Air Conditioning and Heating.	Air Conditioning and Refrigeration Institute www.ari.org

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365	Safety Trained Supervisor in Construction (STS Construction)	CCHES002	The STS certification is intended for managers, first-line construction supervisors, superintendents, foremen, crew chiefs, and craftsmen who have a responsibility to maintain safe conditions and practices on construction job sites.	Individuals must have two years of experience in any industry or in the industry related to the version of the STS examination to be taken; have completed 30 hours of formal safety training through a single course or multiple training courses; and must pass a Safety Trained Supervisor examination (examination contains 100 multiple-choice questions and candidates have two hours to complete it).	Council on Certification of Health, Environmental and Safety Technologists www.cchest.org
366	Siemens (Level I) Mechatronic Systems Assistant	SIEME001	The Mechatronic Systems Assistant certification is the first of three certifications in a series. A Siemens Certified Mechatronic Systems Assistant functions as a well-grounded machine operator in a complex system, with responsibility for efficient operation of the equipment with minimal down-times. Normally a Siemens Certified Mechatronic Systems Assistant would carry out their work at plant assembly sites, workshops or in connections with service operation which utilize complex mechatronic systems.	Level 1 (Assistant) Certification consists of four standardized courses- Electrical Components; Mechanical Components and Electrical Drives; (Electro)Pneumatic and Hydraulic Control Circuits; and Digital Fundamentals and PLCs- designed to be integrated within a college curriculum or to be implemented as continuing education. Each course consists of roughly 64 hours of classroom instruction with additional laboratory work on a physical system located at the training institution, on PC and web-based simulations, etc. After the four courses have been successfully completed the student must pass the final examination.	SIEMENS AG www.siemens-certifications.com
367	Six Sigma Black Belt - CSSBB	AMSFQ011	The Certified Six Sigma Black Belt is a professional who can explain Six Sigma philosophies and principles, including supporting systems and tools. A Black Belt should demonstrate team leadership, understand team dynamics and assign team member roles and responsibilities.	Requires two completed projects with signed affidavits or one completed project with signed affidavit and three years of work experience. Pass a four-hour written exam that consists of 150 multiple-choice questions that measure the comprehension of the Body of Knowledge (Enterprise-Wide Deployment, Organizational Process Management and Measures, Team Management, Define, Measure, Analyze, Improve, Control, and Design for Six Sigma(DFSS) Frameworks and Methodologies).	American Society for Quality (ASQ) www.asq.org/store/training-certification
368	Six Sigma Green Belt - CSSGB	AMSFQ012	The Six Sigma Green Belt operates in support of or under the supervision of a Six Sigma Black Belt, analyzes and solves quality problems and is involved in quality improvement projects.	Three years of work experience and pass a four-hour written exam that consists of 100 multiple choice questions that measure the comprehension of the Body of Knowledge (Overview: Six Sigma and the Organization, Six Sigma - Define, Six Sigma-Measure, Six Sigma-Analyze, and Six Sigma - Improve & Control).	American Society for Quality (ASQ) www.asq.org/store/training-certification
369	SMEI Certified Professional Salesperson (SCPS)	SAMEI001	The (SMEI) Certified Professional Salesperson program is ideal for professionals who are employed as sales representatives, account managers, distributor representatives and business development personnel.	Individuals must meet the standards of education and experience as established by one of the profession's most distinguished panel of experts and universities; pass an online sales certification or marketing certification exam to ensure mastery of all key concepts in their certified discipline; and have a proficiency in the English language.	Sales & Marketing Executives International, Inc. www.smei.org
370	Software Quality Engineer - CSQE	AMSFQ013	The Certified Software Quality Engineer understands software quality development and implementation, software inspection, testing, verification and validation; and implements software development and maintenance processes and methods.	Eight years of on-the-job experience with a minimum of three years in a decision-making position and pass a four-hour written exam that consists of 160 multiple-choice questions that measures the comprehension of the Body of Knowledge (General Knowledge, Software Quality Management, Systems and Software Engineering Processes, Project Management, Software Metrics and Analysis, Software Verification and Validation, and Software Configuration Management).	American Society for Quality (ASQ) www.asq.org/store/training-certification

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No	Certification/ Credential Title	DOE Code	Certification Description	Certification Requirements	Issuing Organization/Provider
371	SPHR® (Senior Professional in Human Resources)	HRCIS002	PHR, SPHR, and GPHR certification shows that the holder has demonstrated mastery of the domestic or international HR body of knowledge and , through recertification, has accepted the challenge to stay informed of new developments in the HR field.	Candidates should have a minimum of two years of professional HR experience and provide evidence that at least 51% of daily activities are within the HR function at the exempt level (professional). Pass a 4 hour 225 multiple-choice question exam with a passing score of 500 (the minimum possible score is 100 and maximum is 700).	Human Resource Certification Institute Society for Human Resource Management www.hrci.org/certification/ov/
372	Sun Certified Java Associate	SUNMI002	The Sun Certified Associate for the Java Platform, Standard Edition, Exam Version 1.0 certification exam provides an ideal entry into an application development or a software project management career using Java technologies. This worldwide credential validates basic knowledge of Object-Oriented Concepts, UML representation of OO concepts, the Java programming language, and general knowledge of Java Platforms and Technologies.	Recommended coursework: The Fundamentals of the Java Programming Language course. To prepare for a certification exam, Sun training and six to twelve months of actual job role experience is recommended. The exam is 51 multiple-choice and drag and drop questions with a 2 hour time limit.	Sun Microsystems http://www.sun.com/training/catalog/courses/CX-310-065.xml
373	Sun Certified Java Developer	SUNMI003	The Sun Certified Java Developer is a performance-based certification for developers interested in demonstrating advanced proficiency in the Java programming language using the Java SE.	To achieve this certification, candidates must successfully complete two elements: a programming assignment (Step 1) and an essay exam (Step 2). Prior to attempting certification, candidates must be certified as a Sun Certified Programmer, any edition. The pass score 320 points out of 400 possible points is subject to the evaluation of the Step 2 essay exam and validation of the authenticity of the programming assignment.	Sun Microsystems http://www.sun.com/training/catalog/courses/CX-310-065.xml
374	Sun Certified Java Programmer	SUNMI001	The Sun Certified Programmer for Java Platform, Standard Edition 6 certification exam is for programmers experienced using the Java programming language. Achieving this certification provides clear evidence that a programmer understands the basic syntax and structure of the Java programming language and can create Java technology applications that run on server and desktop systems using Java SE 6.	Recommended coursework: The Fundamentals of the Java Programming Language course and the Java Programming Language course. To prepare for a certification exam, Sun training and six to twelve months of actual job role experience is recommended. The exam is 72 multiple choice questions; time limit is 3.5 hours.	Sun Microsystems http://www.sun.com/training/catalog/courses/CX-310-065.xml
375	Sun Certified System Administrator	SUNMI004	The Sun Certified System Administrator certification is for system administrators tasked with performing essential system administration procedures on the Solaris Operating System (Solaris OS) and technical application support staff responsible for administering a networked server running on the Solaris OS. Sun offers certification for the Solaris 8, 9, and 10 OS, each consisting of two exams.	Candidates must pass both part I and part II exams of the same Solaris OS version in order to obtain certification. The Sun Certified System Administrator for Solaris 10 OS Part I exam is for candidates with a minimum of six to twelve months experience as a system administrator. The exam is 2 hours with 59 multiple-choice, drag and drop questions. The passing score is 61%. The Sun Certified System Administrator for Solaris 10 Operating System, Part II exam is for candidates with one or more years of experience working as a system administrator. The exam is 105 minutes with 60 multiple-choice, drag and drop questions. The passing score is 63%.	Sun Microsystems http://www.sun.com/training/catalog/courses/CX-310-065.xml
376	Support Center Manager (Certified Help Desk Manager)	HLPDI006	The Certified Help Desk Manager course will empower an individual with new ways to promote the support center to both internal and external customers. In addition, to develop procedures to enable their team to improve their productivity, and discover the tools and technologies necessary to manage a successful support center.	Interactive three-day course, on-line exam preparation; and a certification exam.	Help Desk Institute (HDI) www.thinkhdi.com

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377	Teaching English to Speakers of Other Languages (TESOL) Certificate	WLSGI001	The School for International Training's TESOL Certificate provides participants with professional knowledge and skills in Teaching English to Speakers of Other Languages (TESOL) as well as tools for their own reflection and growth as teachers. The course provides practical training through teaching demonstrations, lesson planning and analysis, and practice teaching and feedback.	An individual must have a high school degree and show a capacity for college-level education including a good understanding of the English language and solid writing skills. The SIT TESOL Certificate Course has eight modules; a 130 hour course designed to be offered intensively in four weeks or extensively over a longer period. One must attend all the program sessions and successfully complete all the student teaching requirements and all program assignments to complete this certification.	World Learning SIT Graduate Institute www.worldlearning.org
378	Truck Driver Certification	PROTD001	Professional Truck Driver Institute (PTDI) developed the first industry-recognized voluntary certification standards for school entry-level truck driver training courses, carrier driver finishing programs and younger driver programs. The standards include skill, curriculum and course/program standards.	Skill standards require that drivers complete several assessment criteria. Individuals must maintain and record hours of service requirements - see the Federal Motor Carrier Regulations, Part 395. PTDI requires a minimum of 104 hours in a classroom and lab setting combined. PTDI requires a minimum of 44 hours behind-the-wheel (BTW) time per student, with at least 12 hours on the range, 12 hours on the road, and 20 hours split whichever way the school decides.	Professional Truck Driver Institute (PTDI) www.ptdi.org
379	Water Treatment Plant Operator Level A	FLDEP004	Florida Statutes require anyone who operates a drinking water treatment plant or a domestic wastewater treatment plant in Florida to be licensed by the Department of Environmental Protection. Students complete competencies listed in the FL-DEP Water Treatment Plant Operators to include: overall water treatment process, scientific concepts, chemical, biological, and physical constituents of water, regulations, pumping & basic hydraulics, and aeration, flocculation, sedimentation, filtration, water softening, stabilization, corrosion, disinfection, chemical removal, demineralization, and fluoridation processes.	To be eligible for operator licensing examinations the applicant must meet the following criteria: have a high school diploma or its equivalent; and have successfully completed a required training course for the classification and level of the examination to be taken no more than five years before the examination. Examinations are composed of four levels Operators - Class A, Class B, Class C, and Class D. The examination time allocated is three hours for class A, B, and C; 90-120 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	Department of Environmental Protection http://www.dep.state.fl.us/water/wff/oc/p/
380	Water Treatment Plant Operator Level B	FLDEP005	Florida Statutes require anyone who operates a drinking water treatment plant or a domestic wastewater treatment plant in Florida to be licensed by the Department of Environmental Protection. Students complete competencies listed in the FL-DEP Water Treatment Plant Operators to include: overall water treatment process, scientific concepts, chemical, biological, and physical constituents of water, regulations, pumping & basic hydraulics, and aeration, flocculation, sedimentation, filtration, water softening, stabilization, corrosion, disinfection, chemical removal, demineralization, and fluoridation processes.	To be eligible for operator licensing examinations the applicant must meet the following criteria: have a high school diploma or its equivalent; and have successfully completed a required training course for the classification and level of the examination to be taken no more than five years before the examination. Examinations are composed of four levels Operators - Class A, Class B, Class C, and Class D. The examination time allocated is three hours for class A, B, and C; 90-120 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	Department of Environmental Protection http://www.dep.state.fl.us/water/wff/oc/p/

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381	Water Treatment Plant Operator Level C	FLDEP006	Florida Statutes require anyone who operates a drinking water treatment plant or a domestic wastewater treatment plant in Florida to be licensed by the Department of Environmental Protection. Students complete competencies listed in the FL-DEP Water Treatment Plant Operators to include: overall water treatment process, scientific concepts, chemical, biological, and physical constituents of water, regulations, pumping & basic hydraulics, and aeration, flocculation, sedimentation, filtration, water softening, stabilization, corrosion, disinfection, chemical removal, demineralization, and fluoridation processes.	To be eligible for operator licensing examinations the applicant must meet the following criteria: have a high school diploma or its equivalent; and have successfully completed a required training course for the classification and level of the examination to be taken no more than five years before the examination. Examinations are composed of four levels Operators - Class A, Class B, Class C, and Class D. The examination time allocated is three hours for class A, B, and C; 90-120 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	Department of Environmental Protection http://www.dep.state.fl.us/water/wff/oc/p/
382	Water Treatment Plant Operator Level D	FLDEP007	Florida Statutes require anyone who operates a drinking water treatment plant or a domestic wastewater treatment plant in Florida to be licensed by the Department of Environmental Protection. Students complete competencies listed in the FL-DEP Water Treatment Plant Operators to include: overall water treatment process, scientific concepts, chemical, biological, and physical constituents of water, regulations, pumping & basic hydraulics, and aeration, flocculation, sedimentation, filtration, water softening, stabilization, corrosion, disinfection, chemical removal, demineralization, and fluoridation processes.	To be eligible for operator licensing examinations the applicant must meet the following criteria: have a high school diploma or its equivalent; and have successfully completed a required training course for the classification and level of the examination to be taken no more than five years before the examination. Examinations are composed of four levels Operators - Class A, Class B, Class C, and Class D. The examination time allocated is three hours for class A, B, and C; 90-120 questions. The examination time allocated is two hours for class D; 45-55 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	Department of Environmental Protection http://www.dep.state.fl.us/water/wff/oc/p/