

CareerSource Florida Comprehensive Industry Certification List for the Career and Professional Education Act

No.	DGD	Certification/ Credential Title	DOE CODE	Certification Description	Certification Requirements	Issuing Organization/ Provider	Website
1		Accredited Business Accountant	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 Legal Secretary (ALS)	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.	NALS...the Association for Legal Professionals	www.nals.org
3		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); ASFMA 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
4		Adobe Certified Associate (ACA) Illustrator	ADOBE020	Adobe Certified Associate Illustrator is a powerful and versatile tool for creating illustrations, logos and graphics for print and the Web. Using vector software, you can produce detailed and scalable art for almost any application. This two day Adobe Illustrator course will teach you how to create and maintain a broad range of graphic types for purposes such as web sites, corporate stationery, newsletters and advertising banners. Understanding the ins and outs of Adobe Illustrator will give you the creative edge when it comes to producing interesting and original graphic compositions.	The associate-level certification exam will correspond to using Adobe Illustrator. The following are requirements of the exam: Setting project requirements; Identifying Design Elements Used When Preparing Graphics; Understanding the Illustrator Interface; Creating Graphics Using Illustrator; and Archiving, Exporting, and Publishing Graphics Using Illustrator.	Adobe Systems	www.adobe.com
5		Adobe Certified Associate (ACA) InDesign	ADOBE021	The Adobe Certified Associate (ACA) certification in InDesign, is aimed at those who plan careers as professional designers, printers, advertisers, or publishers. Adobe InDesign certification sets the industry standard in desktop publishing for print and digital page layout. Offering pixel-perfect control over design and typography, designers can create professional page layouts for print or digital media. With so many powerful features, Adobe certified staff tend to be more skilled in their use of InDesign than their non-certified peers.	The associate-level certification exam will correspond to using Adobe InDesign The following are requirements of the exam: Setting project requirements; Identifying Design Elements Used When Preparing Page Layouts; Understanding the InDesign Interface; Creating Page Layouts Using InDesign; and Publishing, Exporting, and Archiving Page Layouts Using InDesign.	Adobe Systems	www.adobe.com
6		Adobe Certified Associate (ACA) Rich Media Communication Using Adobe - 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, CS4, or CS5. The following are requirements of the exam: Set project requirements; Identify rich-media design elements; Understand Adobe Flash CS3, CS4, or CS5; Build rich-media elements; and Evaluate rich-media elements.	Adobe Systems	www.adobe.com
7		Adobe Certified Associate (ACA) Video Communication With Adobe - Premiere Pro	ADOBE018	The Adobe Certified Associate (ACA) certification allows you to demonstrate proficiency in Adobe digital communications tools. Become a Certified Associate and stand apart from your peers, boost your confidence, and expand your career opportunities.	The associate-level certification exam will correspond to a particular Adobe application - Video Communication using Adobe Premiere Pro CS4, CS5, or CS6. This certification is a computer-delivered, proctored exam consisting 40 multiple-choice questions with a testing time of 50 minutes. Your score will be electronically reported after taking the exam. The exam covers: Setting Project Requirements; Identifying Design Elements when Preparing Video; Understanding the Adobe Premiere Pro Interface; Editing a Video Sequence with Adobe Premiere Pro; and Exporting Video with Adobe Premiere Pro.	Adobe Systems	www.adobe.com
8		Adobe Certified Associate (ACA) Visual Communication With Adobe - 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, CS4, or CS5 Extended. The following are requirements of the exam: Setting project requirements; Identifying design elements when preparing images; Understanding Adobe Photoshop CS3, CS4, or CS5 Extended; Manipulating images; and Evaluating digital images.	Adobe Systems	www.adobe.com
9		Adobe Certified Associate (ACA) Web Communication using Adobe - 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, CS4, or CS5. The following are requirements of the exam: Set project requirements; Plan site design and page layout; Understand the Adobe Dreamweaver CS3, CS4, or CS5 interface; Add content; Organize and modify content; and Evaluate and maintain a site.	Adobe Systems	www.adobe.com
10		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.	The expert level certification program will correspond to either the Adobe Acrobat 9 Professional or Adobe Acrobat X Pro. This certification is a computer delivered, closed book 60-90 minute test.	Adobe Systems	www.adobe.com

11	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 Key framing layers; Creating and Animating Text; Working with Color Management, etc.	The certification exam is a computer-delivered, proctored test consisting of 70 multiple-choice questions. Each exam takes one to two hours to complete, and results are available at the testing center immediately after completion of the test. The Adobe Certified Expert (Illustrator) examination covers: Working with Illustrator documents; drawing and transforming objects; managing color and transparency; using type; controlling effects, appearances, and graphic styles; building graphic objects; working with images; preparing for graphic for web and screen display; and preparing documents for print A minimum of 72% is required to obtain the Adobe Certified Expert (Illustrator) certification.	Adobe Systems	www.adobe.com
12	Adobe Certified Expert - Adobe In Design	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
13	Adobe Certified Expert - Illustrator	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
14	Adobe Certified Expert - Photoshop	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
15	Adobe Certified Expert - 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
16	Aerospace Technician	SPACE001	The purpose of a national Aerospace Technician Certification is to formalize the core competencies 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	Agricultural Biotechnology Certification	FLFBR002	The Agriculture Biotechnology Certification includes training in General agricultural laboratory safety, Application and regulations for biotechnology, Laboratory skills, including: record maintenance, operating procedures, DNA extraction, buffer preparation, etc., Tissue and cell culture techniques, Biotechnological applications to agriculture, food and natural resources Genetic principles (inheritance, DNA properties, expression), and Scientific reasoning, mathematics and physical science skills.	The certification standards for the Agriculture Biotechnology Certification Exam include the standards and benchmarks taught in the Agritechnology program at the secondary level. Certified individuals have a knowledge and skill set applicable to entry level positions in the agricultural industry. The certification is awarded to those persons passing the certification examination's two-hour long assessment which includes all areas listed above. Assessments will be taken online and proctored by trained proctors at locations throughout the state.	Florida Farm Bureau	www.fbaest.com
18	Agricultural Technician Certification	FLFBR001	The Agriculture Technician is trained in Agricultural safety Environmental resource conservation and management, Plant growth and reproduction; including fertilization, irrigation and pest control, Animal systems and livestock management; including health and reproduction, Agricultural machinery and facility maintenance and operations, Agribusiness marketing and finance concepts and Mathematics and physical science skills.	The certification standards for the Agricultural Technician Certification Exam include the standards and benchmarks taught in the Agritechnology program at the secondary level. Certified individuals have a knowledge and skill set applicable to entry level positions in the agricultural industry. The certification is awarded to those persons passing the certification examination's two-hour long assessment which includes all areas listed above. Assessments will be taken online and proctored by trained proctors at locations throughout the state.	Florida Farm Bureau	www.fbaest.com
19	Air Conditioning Installation Specialization	NATEX002	This North American Technician Excellence (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/technicians/certification-basics101/
20	Air Conditioning Service Technician	NATEX001	This North American Technician Excellence (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/technicians/certification-basics101/
21	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

22	Alarm Certified Technician (Fire Alarm/ Advanced)	NBFAA001	This certification provides education 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: - 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: - 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: - 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	Electronic Security Association (ESA)	www.esaweb.org
23	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 or be a graduate of an ASATT approved 2 year educational program of study. Proficiency in English and computer skills is required. 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/
24	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, Inc.	http://training.apple.com/certification/pr oapps
25	Apple Certified Pro (ACP) - Final Cut Pro X	APPLE016	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, Inc.	http://training.apple.com/certification/pr oapps
26	Apple Certified Pro (ACP) - Final Cut Pro X Level Two	APPLE017	Apple Certified Pro- Final Cut Pro X – Level Two certification attests to a deeper understanding of the application, as well as a mastery of advanced features. You may take Level Two exams only after earning Level One certification. This five-day, hands-on course teaches students to perform basic editing functions while becoming familiar with the user interface. Start with basic video editing techniques and work all the way through Final Cut Pro's powerful advanced features. Students work with dramatic real-world media to learn the practical techniques used daily in editing projects.	Students should have the following prerequisite knowledge prior to attending the course: Final Cut Pro X Level One. A final Apple exam is required.	Apple, Inc.	http://training.apple.com/certification/pr oapps
27	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, Inc.	http://training.apple.com/certification/pr oapps
28	Apple Certified Pro (ACP) - Logic Pro X	APPLE018	Apple Certified Pro-logic Pro X certification introduces students to Logic Pro's primary features and basic user interface. This certification adds knowledge for students learn how to generate a customized audio and MIDI configuration that will seamlessly integrate with their own personal production studio. It also allows creation of your own song using Logic Pro's comprehensive array of software instruments, Apple Loops, and DSP effects.	Students should have the following prerequisite knowledge prior to attending the course: Knowledge of OS X and basic computer navigation and basic knowledge of audio terminology is highly recommended. A final Apple exam is required.	Apple, Inc.	http://training.apple.com/certification/pr oapps
29	Apple Certified Support Professional	APPLE019	Apple Certified Support Professional Certification provides knowledge on how to add a Mac to windows or other standards-based networks; Supports OSX users in a business, education institution or school district; manages networks or OSX systems in an organization; manage complex, multi-platform networks that include OSX systems. three-day, hands-on course that provides an in-depth exploration of troubleshooting on OS X Mountain Lion. This course is designed to give students a tour of the breadth of functionality of OS X Mountain Lion and the best methods for effectively supporting users of OS X Mountain Lion systems. The course is a combination of lecture and hands-on case study exercises that provide practical real-world experience.	Students should have the following prerequisite knowledge prior to attending the course: Knowledge of OS X and basic computer navigation. A minimum score of 73% is required to pass the certification exam.	Apple, Inc.	http://training.apple.com/certification/pr oapps
30	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, Inc.	http://training.apple.com/certification/pr oapps
31	ASE Advanced Engine Performance Specialist Test - L1	NIASE001	The ASE Advanced Engine Performance Specialist (L1) certification covers areas that test technicians' knowledge in the diagnosis and repair of computer-controlled engine systems. In addition, the test measures technicians' abilities in diagnosing the cause of high-emission failures.	To become ASE certified as an Advanced Engine Performance Specialist, technicians must be currently certified in A8 (regular Engine Performance) and pass the Advanced Engine Performance Specialist test, and satisfy the two-year hands-on experience requirement.	National Institute for Automotive Service Excellence	www.ase.com
32	ASE Alternate Fuels Series - F1	NIASE061	The ASE Compressed Natural Gas Vehicle (F1) certification covers the areas of: vehicle inspection, equipment installation, leak testing and repairs, emissions, system diagnosis, maintenance and repair, and cylinder safety.	In order to earn ASE certification, technicians must pass the CNG exam and present proof of at least two years of relevant work experience. 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.ase.com

33	ASE Auto Maintenance and Light Repair (G1)	NIASE076	Auto Maintenance & Light Repair certification is somewhat different from the other ASE certifications. It will also have a unique, smaller shoulder patch. However, like all other ASE certifications, the credential will be valid for five years and will be available through the more than 400 ASE testing locations across the country. The new G1 certification provides an assessment of an individual's technical knowledge of bumper-to-bumper maintenance and light repairs in the critical areas of engine systems, automatic transmission/transaxle, manual drive train and axles, suspension & steering, brakes, electrical, and heating & air conditioning.	To become ASE certified, estimators must pass the G1 exam consisting of 55 scored questions and present proof of one year of relevant work experience. The new test will have a one year requirement of hands-on work experience in maintenance and light repair to qualify, and half of that requirement may be met by appropriate vocational training.	National Institute for Automotive Service Excellence	www.ase.com
34	ASE Automobile & Light Truck Certification - A1 - Engine Repair	NIASE010	Successfully passing test A1 will certify an individual in Engine Repair.	To become ASE certified, technicians must pass the Engine Repair (A1) exam and present proof of at least two years of relevant work experience. The test is made up of 50 multiple-choice questions. The questions on this test are designed to test the skills that automobile and light truck technicians need to know in order to be effective in their profession. Testing sessions are 4 hours 15 minutes each in duration. 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.ase.com
35	ASE Automobile & Light Truck Certification - A2 - 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.ase.com
36	ASE Automobile & Light Truck Certification - A3 - 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.ase.com
37	ASE Automobile & Light Truck Certification - A4 - 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.ase.com
38	ASE Automobile & Light Truck Certification - A5 - 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.ase.com
39	ASE Automobile & Light Truck Certification - A6 - 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.ase.com
40	ASE Automobile & Light Truck Certification - A7 - 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.ase.com
41	ASE Automobile & Light Truck Certification - A8 - 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.ase.com
42	ASE Automobile Service Consultant - C1	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 50 multiple-choice questions that address various content areas. Testing sessions are 4 hours 15 minutes each in duration.	National Institute for Automotive Service Excellence	www.ase.com
43	ASE Damage Analysis and Estimating Certification - B6	NIASE019	The ASE Damage Analysis and Estimating (B6) certification is specially constructed and intended for those professionals who may not actually repair vehicles, but have the special knowledge needed to assess collision damage, estimate repair costs, and work with vehicle owners.	To become ASE certified, estimators must pass the B6 exam and present proof of two years of relevant work experience. The experience presented must be related to damage analysis and estimating, not hands-on collision repair. Estimators 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.ase.com
44	ASE Electronic Diesel Engine Diagnosis Specialist Test - L2	NIASE052	The ASE Electronic Diesel Engine Diagnosis Specialist (L2) Test contains questions that test technicians' diagnostic knowledge of diesel engine mechanical and computer-controlled fuel systems. Questions cover both generic diesel engine systems, as well as three specific types of electronic diesel fuel control systems.	Those registering for the Electronic Diesel Engine Diagnosis Specialist Test must be currently certified in the regular Diesel Engines (A9, H2, S2 or T2) and Electrical/Electronic Systems (A6, H6, S6 or T6) test categories, and pass the Electronic Diesel Engine Diagnosis Specialist (L2) test, and satisfy the two-year hands-on experience requirement.	National Institute for Automotive Service Excellence	www.ase.com
45	ASE Master Automobile Technician (A Series)	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.ase.com

46	ASE Master Medium/Heavy Truck (T Series)	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.ase.com
47	ASE Master School Bus Technician (S Series)	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.ase.com
48	ASE Medium/Heavy Truck Technician - T1 - Gasoline Engines	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.ase.com
49	ASE Medium/Heavy Truck Technician - T2 - Diesel Engines	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.ase.com
50	ASE Medium/Heavy Truck Technician - T3 - Drive Train	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.ase.com
51	ASE Medium/Heavy Truck Technician - T4 - Brakes	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.ase.com
52	ASE Medium/Heavy Truck Technician - T5 - Suspension and Steering	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.ase.com
53	ASE Medium/Heavy Truck Technician - T6 - Electrical/Electronic Systems	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.ase.com
54	ASE Medium/Heavy Truck Technician - T7 - Heating, Ventilation, and A/C (HVAC)	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.ase.com
55	ASE Medium/Heavy Truck Technician - T8 - Preventive Maintenance Inspection (PMI)	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.ase.com
56	ASE School Bus Technician - S1 - Body Systems and Special Equipment	NIASE045	Successfully passing test S1 will certify an individual in Body Systems and Special Equipment.	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.ase.com
57	ASE School Bus Technician - S2 - Diesel Engines	NIASE046	Successfully passing test S2 will certify an individual in Diesel Engines.	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.ase.com
58	ASE School Bus Technician - S3 - Drive Train	NIASE047	Successfully passing test S3 will certify an individual in Drive Train.	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.ase.com
59	ASE School Bus Technician - S4 - Brakes	NIASE048	Successfully passing test S4 will certify an individual in Brakes.	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.ase.com
60	ASE School Bus Technician - S5 - Suspension and Steering	NIASE049	Successfully passing test S5 will certify an individual in Suspension and Steering.	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.ase.com
61	ASE School Bus Technician - S6 - Electrical/Electronic Systems	NIASE050	Successfully passing test S6 will certify an individual in Electrical/Electronic Systems.	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.ase.com

DGD-Certification does not meet all requirements. Certifications has been slated for removal from the Career and Professional Education Act Compliance List for program year 2014-2015.

62	ASE School Bus Technician - S7 - Air Conditioning Systems and Controls	NIASE051	Successfully passing test S7 will certify an individual in Air Conditioning Systems and Controls.	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.ase.com
63	ASE Transit Bus Technician - H1 - Compressed Natural Gas (CNG) Engines	NIASE053	Successfully pass the Compressed Natural Gas (CNG) Engines (H1) exam and become certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
64	ASE Transit Bus Technician - H2 - Diesel Engines	NIASE054	Successfully pass the Diesel Engines (H2) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
65	ASE Transit Bus Technician - H3 - Drive Train	NIASE055	Successfully pass the Drive Train (H3) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
66	ASE Transit Bus Technician - H4 - Brakes	NIASE056	Successfully pass the Brakes (H4) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
67	ASE Transit Bus Technician - H5 - Suspension and Steering	NIASE057	Successfully pass the Suspension and Steering (H5) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
68	ASE Transit Bus Technician - H6 - Electrical/Electronic Systems	NIASE058	Successfully pass the Electrical/Electronic Systems (H6) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
69	ASE Transit Bus Technician - H7 - Heating Ventilation and Air Conditioning (HVAC)	NIASE059	Successfully pass the Heating Ventilation and Air Conditioning (HVAC) (H7) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
70	ASE Transit Bus Technician - H8 - Preventive Maintenance And Inspection (PMI)	NIASE060	Successfully pass the Preventive Maintenance and Inspection (PMI) (H8) exam and become ASE certified.	To become ASE certified, technicians must pass one or more of the Transit Bus exams and present proof of at least two years of relevant work experience. Those who pass H1 or H2, plus H3 through H8 are recognized as ASE-certified Master Transit Bus Technicians.	National Institute for Automotive Service Excellence	www.ase.com
71	ASE Truck Equipment Technician - E1 - Truck Equipment Installation and Repair	NIASE062	Successfully passing the Truck Equipment Installation and Repair (E1) test will certify an individual.	To become ASE certified, technicians must pass one or more of the Truck Equipment exams and present proof of at least two years of relevant, verifiable work experience. Those who pass all three tests become ASE-certified Master Truck Equipment Technicians.	National Institute for Automotive Service Excellence	www.ase.com
72	ASE Truck Equipment Technician - E2 - Electrical/Electronic Systems Installation and Repair	NIASE063	Successfully passing the Truck Equipment Installation and Repair (E2) test will certify an individual.	To become ASE certified, technicians must pass one or more of the Truck Equipment exams and present proof of at least two years of relevant, verifiable work experience. Those who pass all three tests become ASE-certified Master Truck Equipment Technicians.	National Institute for Automotive Service Excellence	www.ase.com
73	ASE Truck Equipment Technician - E3 - Auxiliary Power Systems Installation and Repair	NIASE064	Successfully passing the Auxiliary Power Systems Installation and Repair (E3) will certify an individual.	To become ASE certified, technicians must pass one or more of the Truck Equipment exams and present proof of at least two years of relevant, verifiable work experience. Those who pass all three tests become ASE-certified Master Truck Equipment Technicians.	National Institute for Automotive Service Excellence	www.ase.com
74	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.aicpcu.org
75	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.aicpcu.org
76	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.aicpcu.org
77	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.aicpcu.org

78	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
79	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
80	Autodesk Certified Professional - 3ds Max	ADESK029	Autodesk Certified Professional 3ds Max certification is a career and technical education certification across the United States that equip students with marketable 2D and 3D design skills by teaching them to use state-of-the-art Autodesk® design software. Autodesk Certified User (ACU) certification confirms students have the skills necessary to continue their design careers—whether they attend college, enter the workforce or work toward additional levels of industry certification after graduation.	To earn the credential of 3ds Max Certified Professional, the student must pass a 120-minute performance based test comprised of 35 questions. Even though not required, it is recommended that a student complete 400 hours of hands-on application before sitting for the exam.	Advanced Technologies Solutions	http://www.atsicad.com
81	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 76%. Even though not required, it is recommended that a student complete an Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk	www.autodesk.com
82	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 an Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk	www.autodesk.com
83	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 an Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk	www.autodesk.com
84	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 80%. Even though not required, it is recommended that a student complete an Autodesk Official Training Courseware (AOTC) or equivalent plus 400 hours of hands-on application before sitting for the exam.	Autodesk	www.autodesk.com
85	Autodesk Certified User - AutoCAD	ADESK002	Autodesk Certified User Program is for Entry Level Job Skills. 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	www.autodesk.com
86	Autodesk Certified User - Autodesk Inventor	ADESK011	Autodesk Certified User Program is for Entry Level Job Skills. 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	www.autodesk.com

87	Autodesk Certified User - Revit Architecture	ADESK008	Autodesk Certified User Revit Architecture Certification is aimed at assessing professional users' knowledge of the tools, features, and common tasks of Revit Architecture. Revit software works the way architects and designers think, so you can develop higher-quality, more accurate architectural designs. Capture and analyze concepts, and maintain your vision through design, documentation, and construction. An individual who has achieved Autodesk Certification has validated their knowledge and skills of the performance tasks specified for the specific examination. 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.	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.	Advanced Technologies Solutions	http://www.atsicad.com
88	Avid Media Composer Certified User	AVIDT001	The Avid Media Composer Certified User Exam is the first of two certification exams that allow an individual to become Avid Certified. The two combined certifications offer an established and recognized goal for both academic users and industry professionals. The Avid Media Composer User Certification requires that a student display a firm grasp of the core skills, workflows, and concepts of non-linear editing on the V5.0 Avid Media Composer system.	The required exam covers content from the Professional Editing with Avid Media Composer 5-day course (or equivalent real-world product experience). The exam is 60 questions and the time allotted to complete the exam is 75 minutes.	AVID	www.avid.com/US/
89	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
90	Basic X-ray Machine Operator	FDMQA001	X-Ray Machine Operators perform radiographic exams at physicians' and dentists' offices, urgent care facilities and public health clinics. X-Ray Machine Operators prepare patients for exams and explain procedures to them. They must follow strict guidelines about usage of radiographic equipment. In addition to X-rays, some X-Ray Machine Operators are qualified to perform computed tomography (CT) and magnetic resonance imaging (MRI) scans.	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.	Florida Department of Health, Division of Medical Quality Assurance	www.doh.state.fl.us/mqa/nursing
91	Biomedical Auditor Certification/ Certified Biomedical Auditor (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) or if you have completed a degree from a college, university or technical school with accreditation accepted by ASQ, part of the five-year experience requirement will be waived, as follows (only one of these waivers may be claimed): Associate degree—one year waived Bachelor's degree—three years waived and Master's or doctorate—four years waived. Must 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
92	Biotechnician Assistant	CERHB001	The Bio Technician certification includes: Safety procedures and guidelines; Communication and Documentation; Scientific Inquiry, Calculations & Analysis; Basic equipment use and maintenance; Organism Structure and Function, Chemical applications (Molar concentrations, chemical bonding, pH); Microbiology and Blood-Borne Disease; Product and Process development, Manufacturing processes; Regulatory and Quality systems; Legal and ethical responsibilities; and Mechanisms and Resources to collect, analyze, and disseminate information and data.	The "Biotechnician Assistant" is a Florida credential that reflects successful mastery of the theoretical knowledge and practical applications described in the framework of Florida's secondary program #8736000; a three-course sequence of Biotechnology 1 (#3027010), Biotechnology 2 (#3027020), and Biotechnology 3 (#8736030). Certification is earned by scoring an 80% or higher on the written and practical sections of the exam. Completion of the secondary program is not required to take the exam.	University of Florida, Center of Excellence for Regenerative Health Biotechnology (UF CERHB), Industry recognition through BioFlorida	www.cerhb.ufl.edu/education-center/biotechnician-assistant-credential
93	Broadband Premises Installer (BPI)	SOCTE004	The Broadband Premises Installer certification describes the knowledge of an entry-level technician who will install and troubleshoot telecommunications services (video, voice, and data) at the customer's premises. The successful certification candidate has the knowledge to carry out a basic "triple-play" installation but is not yet proficient.	Certification requires an online 50-question multiple-choice exam and a score of 76% to pass.	Society of Cable Telecommunications Engineers	www.scte.org
94	Broadband Professional Certification	CTECH006	C-Tech's Broadband Academy offers an array of specialized courses developed to help train individuals in a variety of connectivity systems and telecommunication technologies. Each training module has a unique curriculum designed to prepare students for a professional future in a specific field, ranging from installing, programming, or maintaining audio/visual, copper-based, fiber optic, or voice/messaging systems with an emphasis on Green technology applications.	To obtain a Broadband Professional Certification a student must complete and pass the following seven certification courses: Telecommunications: Technology Systems (40 hours); Network Cabling: Copper-Based Systems (40 hours); Network Cabling: Fiber Optic-Based Systems (30 hours); Audio / Video Installation Systems (30 hours); Energy Management Systems (40 hours); Telephone Systems and VoIP (40 hours); and Connecting to Business (10 hours). An final exam is required after each course. The complete Broadband Academy program is 230 hours. The completion of each course results in a single industry recognized certification, however in order for a student to become a certified Broadband Professional, they must complete all seven certification courses.	C-Tech Associates, Inc	www.ctechbroadband.com/

DGD-Certification does not meet all requirements. Certifications has been slated for removal from the Career and Professional Education Act Comprehensive List for program year 2014-2015.

95	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
96	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
97	Certified Apprentice Drafter - Architectural	AMDDA002	The ADDA Professional Certification (AD) (CD) (CDD) (CDT) (DIT) Examinations are international certification programs that allows apprentice drafters, drafters, designers, design drafters, design technicians, engineering and architectural technicians and digital imaging technicians, as well as other graphic professionals to indicate their knowledge in professional concepts and internationally recognized standards and practices. ADDA developed these examinations to elevate an individual's comprehension of the professional standards related to design drafting and the graphics profession. Certification enables drafters to demonstrate professional capabilities and helps employers in identifying quality employees. The test does not cover software which is specific to computer aided drafting or design(CADD) or graphic production.	The ADDA Drafter Certification Examination is open to all individuals, regardless of experience and formal education. Membership in ADDA is not required to take the test or become certified. Examinees have 120 minutes to complete the exam. The questions cover a wide assortment of situations normally encountered in the drafting profession. There are 400 questions on the exam and a passing score of 75% or greater is required. One year On-the-Job Training or 400 – 600 Contact Hours of Practical Discipline Specific Education is recommended prior to taking the Apprentice Drafter "AD" certification exam. For a list of specific competencies covered on the Certified Apprentice Drafter (AD) - Architectural Exam please visit the ADDA website.	American Design Drafting Association	www.adda.org
98	Certified Apprentice Drafter - Mechanical	AMDDA005	The ADDA Professional Certification (AD) (CD) (CDD) (CDT) (DIT) Examinations are international certification programs that allows apprentice drafters, drafters, designers, design drafters, design technicians, engineering and architectural technicians and digital imaging technicians, as well as other graphic professionals to indicate their knowledge in professional concepts and internationally recognized standards and practices. ADDA developed these examinations to elevate an individual's comprehension of the professional standards related to design drafting and the graphics profession. Certification enables drafters to demonstrate professional capabilities and helps employers in identifying quality employees. The test does not cover software which is specific to computer aided drafting or design(CADD) or graphic production.	The ADDA Drafter Certification Examination is open to all individuals, regardless of experience and formal education. Membership in ADDA is not required to take the test or become certified. Examinees have 180 minutes to complete the exam. The questions cover a wide assortment of situations normally encountered in the drafting profession. There are 395 questions on the exam and a passing score of 75% or greater is required. Two years On-the-Job Training or 800 – 1200 Contact Hours of Practical Discipline Specific Education is recommended prior to taking the Certified Drafter "CD" certification exam. For a list of specific competencies covered on the Certified Drafter (CD) - Mechanical Exam please visit the ADDA website.	American Design Drafting Association	www.adda.org
99	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
100	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
101	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 <u>accounting and tax information</u> .	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
102	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
103	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

104	Certified Clinical Hemodialysis Technician	NNCCO001	Hemodialysis Technicians operate machines that remove wastes, salts, and extra water from patients' blood while keeping safe levels of certain chemicals.	The CCHT exam contains 150 questions and must be completed in 180 minutes. A correct response rate of between 70 and 75% is required to pass the exam, depending on the version of the test. Applicant must have a minimum of 2000 hours of work experience as a hemodialysis patient care technician within the two-year period of certification.	Nephrology Nursing Certification Commission	www.nncc-exam.org
105	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
106	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
107	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
108	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
109	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
110	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
111	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

112	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 or Individuals who have completed a minimum of 3500 hours of work as a dental assistant over a period of 2-4 years or be a current or former DANB CDA, a CODA DDS or DMD program or be a graduate from a foreign dental degree program. 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
113	Certified Dental Technician	NCDLTO01	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
114	Certified Drafter - Architectural	AMDDA003	The ADDA Professional Certification (AD) (CD) (CDD) (CDT) (DIT) Examinations are international certification programs that allows apprentice drafters, drafters, designers, design drafters, design technicians, engineering and architectural technicians and digital imaging technicians, as well as other graphic professionals to indicate their knowledge in professional concepts and internationally recognized standards and practices. ADDA developed these examinations to elevate an individual's comprehension of the professional standards related to design drafting and the graphics profession. Certification enables drafters to demonstrate professional capabilities and helps employers in identifying quality employees. The test does not cover software which is specific to computer aided drafting or design(CADD) or graphic production.	The ADDA Drafter Certification Examination is open to all individuals, regardless of experience and formal education. Membership in ADDA is not required to take the test or become certified. Examinees have 120 minutes to complete the exam. The questions cover a wide assortment of situations normally encountered in the drafting profession. There are 410 questions on the exam and a passing score of 75% or greater is required. One year On-the-Job Training or 400 – 600 Contact Hours of Practical Discipline Specific Education is recommended prior to taking the Apprentice Drafter "AD" certification exam. For a list of specific competencies covered on the Certified Apprentice Drafter (AD) - Mechanical Exam please visit the ADDA website.	American Design Drafting Association	www.adda.org
115	Certified Drafter - Mechanical	AMDDA004	The ADDA Professional Certification (AD) (CD) (CDD) (CDT) (DIT) Examinations are international certification programs that allows apprentice drafters, drafters, designers, design drafters, design technicians, engineering and architectural technicians and digital imaging technicians, as well as other graphic professionals to indicate their knowledge in professional concepts and internationally recognized standards and practices. ADDA developed these examinations to elevate an individual's comprehension of the professional standards related to design drafting and the graphics profession. Certification enables drafters to demonstrate professional capabilities and helps employers in identifying quality employees. The test does not cover software which is specific to computer aided drafting or design(CADD) or graphic production.	The ADDA Drafter Certification Examination is open to all individuals, regardless of experience and formal education. Membership in ADDA is not required to take the test or become certified. Examinees have 180 minutes to complete the exam. The questions cover a wide assortment of situations normally encountered in the drafting profession. There are 400 questions on the exam and a passing score of 75% or greater is required. Two years On-the-Job Training or 800 – 1200 Contact Hours of Practical Discipline Specific Education is recommended prior to taking the Certified Drafter "CD" certification exam. For a list of specific competencies covered on the Certified Drafter (CD) - Architectural Exam please visit the ADDA website.	American Design Drafting Association	www.adda.org
116	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 complete 60 hours of training and perform 10 live EKG's.	National Healthcareer Association	www.nhanow.com
117	Certified Electronic Health Record Specialist (CEHRS)	NATHA011	A Certified Electronic Health Record Specialist (CEHRS) certification provides students with the skills and knowledge of how to maintain the integrity and protect the privacy and security of patient information. This certification helps an individual demonstrate their proficiency in auditing of patient records for compliance with legal and regulatory requirements perform basic coding to submit claims for reimbursement from insurers and collect patient demographic and insurance information.	To be eligible to earn a NHA Certification, the individual must have a High School Diploma or the equivalent and successfully completed a training program or one year of work experience within the field. Candidates must provide written proof of training or experience and/or documentation of education completion upon request. An applicant who is scheduled to graduate from an accredited high school or GED program may receive a provisional certification. Candidates for provisional certification must take and successfully pass the examination no more than 12 months prior to graduation. The provisional certification expires 12 months after the examination date and must be converted to a full certification within that time frame.	National Healthcareer Association	www.nhanow.com
118	Certified Employee Benefits Specialist	IFEBP001	The Certified Employee Benefit Specialist program is a certificate that covers an entire spectrum of employee benefits. It is designed to help individuals develop a comprehensive understanding of employee benefit principles and concepts.	The CEBS® (Certified Employee Benefit Specialist) program now awards exam transfer credit for those who hold the CHRP (Canadian Human Resource Professional) designation. CEBS is an eight-course professional certification program covering all areas of employee benefits, including retirement, group benefits, financial planning, human resources and compensation.	International Foundation Employee Benefits	www.ifebp.org
119	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

120	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.	www.cfp-board.org
121	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
122	Certified Food Protection Manager (ServSafe)	NRAEF003	Florida Statute 509.039 requires certification of all food service managers who are responsible for the storage, preparation, display, or serving foods to the public. ServSafe training covers critical principles including personal hygiene, cross contamination, time and temperature, receiving and storage, food safety management systems, training hourly employees, sanitation, the flow of food through the operation, and sanitary facilities and pest management.	After completing classroom or online training, students must successfully pass a Food Manager Certification examination.	National Restaurant Association Educational Foundation	www.nraef.org
123	Certified Fraud Examiner (CFE)	ACFEX001	A Certified Fraud Examiner (CFE) is a leader in the anti-fraud community, noted as a specialist in the prevention and deterrence of fraud. They represent the highest standards held by the ACFE and possess expertise in all aspects of the anti-fraud profession. The Certified Fraud Examiner credential denotes proven expertise in fraud prevention, detection, and deterrence.	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
124	Certified Front Desk Supervisor	AHLAE010	The Lodging Management Program (LMP) provides high school students with the classroom learning and real-life work experiences needed to take advantage of the career opportunities in lodging. Topics covered in the program include lodging management, front office and housekeeping management, leadership skills, marketing and sales, and food and beverage service.	This program requires students to complete 360 hours of instruction (180 hours per year) and pass two exams (one at the end of each year) along with 160 hours of an industry-mentored internship at a lodging property. During the internship the student must have the mentor complete a workplace competency checklist which becomes part of the student portfolio. After earning certificates for successful completion of the LMP Year 1 and Year 2 exams, students earn the Front Desk Supervisor certification.	American Hotel & Lodging Educational Institute	www.ahlei.org/lmp/
125	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
126	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

127	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.	Florida Nursery, Growers & Landscape Association	www.fngla.org
128	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
129	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/
130	Certified Internet Web (CIW) - Database Design Specialist	PROSO006	Database Design Methodology teaches students how to plan and design relational databases. Students will learn about the theory behind relational databases, relational database nomenclature, and relational algebra. The course includes sections on Structured Query Language (SQL) and optimizing databases through normalization. Students will apply their knowledge with hands-on labs designed to teach the intricacies of database design methodology.	The CIW Database Design Specialist course prepares candidates to take the CIW Database Design Specialist exam, which if passed earns the individual the Database Design Specialist certification. It is recommended that students have a basic knowledge of the purpose and function of a database. Also, students should be familiar with an operating system such as Microsoft Windows XP before taking this course.	Certification Partners	www.ciwcertified.com
131	Certified Internet Web (CIW) - E-Commerce Specialist	PROSO003	E-Commerce Strategies and Practices teaches individuals how to conduct business online and manage the technical issues associated with constructing an e-commerce Web site. Students learn about the similarities and differences between traditional and electronic commerce, and will explore e-commerce technologies at various levels of sophistication.	Before taking this course, students should have completed the CIW Foundations series of courses and the CIW Design Methodology and Technology course, or be able to demonstrate equivalent knowledge of fundamental Internet and site design skills. The CIW E-Commerce Strategies and Practices course prepares candidates to take the CIW E-Commerce Specialist exam, which, if passed, earns the individual the CIW E-Commerce Specialist certification.	Certification Partners	www.ciwcertified.com
132	Certified Internet Web (CIW) - Internet Business Associate	PROSO016	Internet Business Foundations prepares students to work effectively in today's business environment. In this course, students will learn about the tasks involved in various Information Technology (IT) job roles, and explore career opportunities in the IT industry. They will learn about Internet connection methods, Internet protocols, the Domain Name System (DNS) and cloud computing. Students will study the basic functions of Web browsers, the components of Web addresses, the use and control of cookies, and browser use in the business world. Finally, students will learn how browser plug-ins and add-ons can improve your Web-browsing experience, and how to use browsers to download and manage files.	Students should be familiar with an operating system such as Microsoft Windows Vista before taking this course. Students are required to take the CIW Internet Business Associate exam (1D0-51A). Note: the certifying agency will be retiring the current exam as of Dec 31, 2013. As of Jan 1, 2014, candidates will be required to take the newer version of the exam (1D0-61B).	Certification Partners	www.ciwcertified.com
133	Certified Internet Web (CIW) - JavaScript Specialist	PROSO017	JavaScript Fundamentals is a 12-hour course that teaches developers how to use the features of the JavaScript language to design client-side, platform-independent solutions. Students learn how to write JavaScript programs, script for the JavaScript object model, control program flow, validate forms, animate images, target frames, and create cookies. Students will also understand and use the most popular applications of JavaScript.	The CIW JavaScript Fundamentals course prepares candidates to take the CIW JavaScript Specialist exam, which if passed earns the individual the CIW JavaScript Specialist certification. Prerequisite: Students must have CIW Foundations certification or equivalent experience, and be proficient in Hypertext Markup Language (HTML) authoring.	Certification Partners	www.ciwcertified.com
134	Certified Internet Web (CIW) - Network Technology Associate	PROSO018	The Network Technology Foundations course prepares students for job readiness in many business and technology-related careers. Understanding the fundamentals of networking, Internet protocols and network security is important for all professionals who use the Internet. This certification proves one's mastery of the basics of networking and prepares students for further study in the specialty of their choosing. Target audience: all professionals required to use the Internet in their daily job functions. Information in this course is required for all levels of specialization in the CIW program.	The CIW Network Technology Foundations course prepares candidates to take the CIW Network Technology Associate exam, which, if passed, earns the individual the CIW Network Technology Associate certification. Note: the certifying agency will be retiring the current exam as of Dec 31, 2013. As of Jan 1, 2014, candidates will be required to take the newer version of the exam (1D0-61C).	Certification Partners	www.ciwcertified.com
135	Certified Internet Web (CIW) - Perl Specialist	PROSO019	Perl Fundamentals is an 18-hour course that teaches students how to fully utilize the Perl programming language. Students learn the Perl syntax, the basics of using regular expression, how to use Perl data types, and how to access and manipulate files. Students are also introduced to database connectivity and debugging techniques. Target audience: Webmasters, software developers, application programmers, client/server developers, and desktop publishers.	The CIW Perl Fundamentals course prepares candidates to take the CIW Perl Specialist exam, which if passed earns the individual the CIW Perl Specialist certification. Prerequisite: Students must have CIW Foundations certification or equivalent experience, and be proficient in Hypertext Markup Language (HTML) authoring.	Certification Partners	www.ciwcertified.com

136	Certified Internet Web (CIW) - Site Development Associate	PROSO020	Site Development Foundations teaches students essential Web page development skills. Individuals will learn to develop Web sites using Hypertext Markup Language (HTML) and Extensible HTML (XHTML). The coursework will instruct them to write code manually, as well as use graphical user interface (GUI) authoring tools. Students will also learn how to insert images, create hyperlinks, and add tables, forms and frames to Web pages.	The CIW Site Development Foundations course prepares candidates to take the CIW Site Development Associate exam, which, if passed, earns the individual the CIW Site Development Associate certification. Once you have earned this certification, you are better prepared to begin the CIW Web Design Specialist program. Students should be familiar with an operating system such as Microsoft Windows XP before taking this course. Note: the certifying agency will be retiring the current exam as of Dec 31, 2013. As of Jan 1, 2014, candidates will be required to take the newer version of the exam (1D0-61B).	Certification Partners	www.ciwcertified.com
137	Certified Internet Web (CIW) - Web Design Professional	PROSO021	Certified CIW Web Design Professionals must prove their understanding in the areas of Web site design and e-commerce. They must be able to develop and maintain Web sites using authoring and scripting languages, create content and digital media, and employ standards and technologies for business-to-business and business-to-consumer e-commerce Web sites.	To earn the CIW Web Design Professional certification, you must take and pass two certification exams: CIW Web Design Specialist CIW E-Commerce Specialist Passing each of these exams earns you the related individual certification. If a student passes both exams, they will be awarded the advanced Web Design Professional certification in addition to the individual certifications.	Certification Partners	www.ciwcertified.com
138	Certified Internet Web (CIW) - Web Design Specialist	PROSO022	The Web Design Specialist course teaches students how to design and publish Web sites. General topics include Web Site Development Essentials (such as the site development process, customer expectations, and ethical and legal issues in Web development), Web Design Elements (such as aesthetics, the site user's experience, navigation, usability and accessibility), Basic Web Technologies (such as basic Hypertext Markup Language [HTML], Extensible HTML [XHTML] and extended technologies, image files, GUI site development applications, site publishing and maintenance) and Advanced Web Technologies (such as multimedia and plug-in technologies, client-side and server-side technologies, and Web databases). Target audience: Web authors, marketing and communications professionals, PR professionals, Webmasters, graphic designers, desktop designers, technical writers, and library scientists.	Students taking this course need a basic understanding of Internet functionality and tools, and X/HTML. The CIW Web Design Specialist course prepares candidates to take the CIW Web Design Specialist exam, which, if passed, earns the individual the CIW Web Design Specialist certification.	Certification Partners	www.ciwcertified.com
139	Certified Internet Web (CIW) - Web Development Professional	PROSO023	The CIW Web Development Professional certification program is an ambitious journey for the individual who wants to excel in a career in Web and IT technologies. The essential combination of a front-end scripting language, a back-end programming language and the skills to integrate them with a database is what makes a Web Development Professional. Because of this diversity, this individual will become a valuable corporate IT team member. Target Audience: web application developers, software developers, application programmers, client/server developers, and web	To earn the CIW Web Development Professional certification, a student must take and pass three certification exams: CIW JavaScript Specialist CIW Perl Specialist CIW Database Design Specialist Passing each of these exams earns a student the related individual certification. If a student passes all three exams, they will be awarded the advanced Web Development Professional certification in addition to the individual certifications	Certification Partners	www.ciwcertified.com
140	Certified Internet Web (CIW) - Web Foundations Associate	PROSO024	The CIW Web Foundations series of courses is the most popular vendor-neutral Web education program in the world. Individuals who have completed all three Foundations courses have mastered more than mere digital literacy skills: They have a unique understanding of Internet business, data networking and Web site design. This certification is ideal for all professionals who use the Internet on the job. Once certified, these individuals are ready to pursue specialties in Web design, e-commerce, JavaScript, databases and other fields.	To earn this certification candidate must either pass the Web Foundations Associate Exam or complete all three Foundation courses/exams: Internet Business Foundations Site Development Foundations Network Technology Foundations Having earned these three individual certifications certifies an individual as a Web Foundations Associate. Note: the certifying agency will be retiring the current exams as of Dec 31, 2013. As of Jan 1, 2014, candidates will be required to take the newer version of the exam (1D0-610). Candidates who have already passed an earlier version of one of the three foundation exams, may receive credit towards the certification.	Certification Partners	www.ciwcertified.com
141	Certified Internet Web (CIW) - Web Security Associate	PROSO025	The CIW Network Security and Firewalls course teaches students how to secure networks from unauthorized activity. This course teaches about security principles, such as establishing an effective security policy, and about the different types of hacker activities that individuals in this field are most likely to encounter. Individuals with these security skills can pursue or advance careers in many aspects of online and network security.	The CIW Network Security and Firewalls course prepares candidates to take the CIW Web Security Associate exam. Prerequisites: Students must have passed the CIW Foundations, CIW Server Administrator, and CIW Internetworking Professional exams or have equivalent skills. Candidates who also pass additional certification exams from third-party security training providers can earn the higher-level, CIW Web Security Specialist and CIW Web Security Professional certifications.	Certification Partners	www.ciwcertified.com
142	Certified Internet Web (CIW) - Web Security Professional	PROSO010	The CIW Web Security series is for those who configure, manage and deploy e-business solutions servers, and implement e-business and network security solutions. This series offers three levels of credential to recognize the achievements of those who have also attained levels of proficiency in networking administration and now want to validate and prove their competencies in security.	CIW Web Security candidates must meet the following requirements: 1. Pass one required CIW exam. 2. Complete the CIW Certification Agreement (by logging into the CIW Candidate Information Center). 3. Submit proof of one valid networking administration certification from an approved vendor.	Certification Partners	www.ciwcertified.com

143	Certified Internet Web (CIW) - Web Security Specialist	PROSO026	The CIW Network Security and Firewalls course teaches students how to secure networks from unauthorized activity. This course teaches about security principles, such as establishing an effective security policy, and about the different types of hacker activities that individuals in this field are most likely to encounter. Individuals with these security skills can pursue or advance careers in many aspects of online and network security. Target audience: Network server administrators, firewall administrators, systems administrators, application developers, and IT security officers.	The CIW Network Security and Firewalls course prepares candidates to take the CIW Web Security Associate exam. Candidates who also pass ONE of the following certification exams from third-party security training providers earn the foundational CIW Web Security Specialist certification: view list *	Certification Partners	www.ciwcertified.com
144	Certified Maintenance and Reliability Technician Program	SMRPR001	The Certified Maintenance and Reliability Technician certification will provide a non-biased, third-party, objective assessment and confirmation of the skills of a candidates industrial maintenance mechanics. For maintenance mechanics, the CMRT program provides an opportunity to stand out from the crowd and be recognized. Certified Maintenance and Reliability Technicians are responsible for preventive, predictive, and corrective maintenance. They perform troubleshooting and analysis, and apply sound maintenance practices in all aspects of their work. Certified Maintenance and Reliability Technicians are multi-skilled individuals whose expertise is primarily mechanical in nature as opposed to instrumentation or electrical.	The Examination for certification as an industrial maintenance mechanic consists of 175 multiple-choice questions. Examinees are allowed four hours to complete it. The examination is closed book with no reference materials allowed in the examination room (except strict translation dictionaries for candidates whose native language is not English, under conditions specified in Section II of this guide). A hand-held calculator with arithmetic functions is provided for use by those sitting for the exam. Four major performance domains account for the examination's content. Domain I: Maintenance Practices Domain II: Preventive and Predictive Maintenance Domain III: Troubleshooting and Analysis Domain IV: Corrective Maintenance Candidates must schedule and take an examination within six months of the date they make application and are made eligible to sit for it. There are no educational experiences or other requirements, other than completion of the application form, payment of applicable fees in advance and time since taking a previous certification exam for candidates who wish to take an examination and no conviction of a felony or other crime of moral turpitude under international, national, federal or state law in any matter related to the practice of or qualification for professional activity.	Society for Maintenance and Reliability Professionals	www.smrp.org
145	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.	Certification requires Business Analysis, Three hours, 110 multiple choice questions; Management Accounting and Reporting Four hours, 140 multiple choice questions; Strategic Management Three hours, 110 multiple choice questions; and Business Applications Three hours, 3-7 written-response essays and problems.	Institute of Management Accountants	www.imanet.org
146	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 Exam	National Board of Certification for Community Association Managers	www.nbccam.org
147	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.	Society of Manufacturing Engineers (SME)	www.sme.org
148	Certified Medical Administrative Assistant	NATHA003	Patient's medical record and office management skills; Appointment/ scheduling/ correspondence; and Mail management skills.	To be eligible for NHA certification, applicants must possess a high school diploma or GED, and have completed a training program or have one year work experience in the field. Students who have completed the State of Florida's Medical Administrative Assistant Program may apply to NHA to receive a waiver to take exam prior to high school graduation.	National Healthcareer Association	www.nhanow.com
149	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 be a training program accredited by the Accrediting Bureau of Health Education Schools (ABHES) or A medical office administrative 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, that includes 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 Or an Applicant shall be certified as a Registered Medical Assistant (RMA) (or equivalent) and possess a minimum of two (2)years experience working as a medical office administrative specialist. Or an applicant shall have been employed as a medical office administrative specialist for a minimum of five (5) years.	American Medical Technologists (AMT)	www.americanmedtech.org
150	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

DGD-Certification does not meet all requirements. Certifications has been slated for removal from the Career and Professional Education Act Comprehensive List for program year 2014-2015.

151	Certified Medical Laboratory Assistant	NATHA004	A Certified Medical Laboratory Assistant certification provides students with the skills to perform analytical test that are crucial in the detection, diagnosis and treatment of disease. This certification helps an individual demonstrate their proficiency in assisting clinical laboratory personnel in the analysis of blood and body fluids, perform phlebotomy procedures, accession, centrifuge and separate serum or plasma from cells. Other duties include the delivery of specimens for testing and prepare special tests for reference laboratory pick up.	To be eligible to earn a NHA Certification, the individual must have a High School Diploma or the equivalent and successfully completed a training program or one year of work experience within the field. Candidates must provide written proof of training or experience and/or documentation of education completion upon request. An applicant who is scheduled to graduate from an accredited high school or GED program may receive a provisional certification. Candidates for provisional certification must take and successfully pass the examination no more than 12 months prior to graduation. The provisional certification expires 12 months after the examination date and must be converted to a full certification within that time frame.	National Healthcareer Association	www.nhanow.com
152	Certified Medical Transcriptionist	AFHDI001	The CMT exam is designed to assess competency in medical transcription by determining if a candidate has the core knowledge and skills needed to practice medical transcription effectively in a multispecialty acute-care facility, where variable specialties, document types, and difficulty of dictation necessitate an advanced level of clinical knowledge and interpretive ability.	The CMT exam targets an experienced medical transcriptionist with Professional Level 2 skills and knowledge as defined in the "Medical Transcriptionist Job Descriptions". Although any candidate is "eligible" and granted permission to take the CMT certification examination, two years of transcription experience in the acute care (or equivalent) setting is strongly suggested for success on the exam. 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 (AHDII)	www.ahdionline.org
153	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.cc-institute.org
154	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 Prometric CNA 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. Applicants must pass a level 2 background screen prior to taking the exam. 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/mqa/nursing
155	Certified Operations Manager	CCIA001	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
156	Certified Paralegal/ Certified Legal Assistant (CP/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
157	Certified Patient Care Technician	NATHA006	A Certified Patient Care Technician/Associate/Nurse Technician (CPCT/CPCA/CNT) works with doctors, nurses and other healthcare professionals to provide direct patient care in a variety of healthcare environments. A CPCT/CPCA/CNT duties may include basic patient care including feeding, bathing or moving patients and changing linens.	Candidates must be at least 18 years of age and have a high school diploma, or equivalency and must have successfully completed an accredited or approved training program within the last year or must have worked within the past year in the field of certification for a minimum of one year.	National Healthcareer Association	www.nhanow.com
158	Certified Pharmacy Technician (CPhT)	NATHA010	Certified Pharmacy Technicians (CPhT) perform work delegated by licensed pharmacists in accordance with state rules and regulations. A CPhT's duties may include receiving written prescriptions requests from patients, and sent electronically from doctor's offices, prepare medications including retrieving, counting, pouring, weighing, and measuring, establish and maintain patient profiles, and prepare insurance claim forms and manage inventory.	To be eligible to earn an NHA Certification, candidates must have a High School Diploma or the equivalent and have successfully completed a training program or one year of work experience within the field. Candidates must provide written proof of training or experience and/or documentation of education completion upon request. To earn a Certified Pharmacy Technicians (CPhT) certification, candidates have 2 hours to complete 110 multiple choice questions. Content includes: Regulations and Pharmacy Duties (35 questions), Drug and Drug Therapy (11 questions), and Dispensing Process (54 questions). Candidates must pass with a scaled score of 390 or higher out of 500.	National Healthcareer Association	www.nhanow.com
159	Certified Phlebotomy Technician	AMSPT002	A Phlebotomy Technician (Phlebotomist) is an integral member of the medical laboratory team whose primary function is the collection of blood samples from patients by venipuncture or microtechniques. The Phlebotomy Technician facilitates the collection and transportation of laboratory specimens, and is often the patient's only contact with the medical laboratory. The need to assure quality and patient safety mandates strict professional behavior and standards of practice for Phlebotomists.	One full year as a part-time phlebotomist, or six months as a full-time phlebotomist; or a letter from a health care supervisor attesting that part of the job is procuring blood specimens regularly; must be submitted with the membership application on facility letterhead; or signature of supervisor/instructor on application attesting to the above. Successful completion of an accredited phlebotomy training program; MUST have at least 100 documented successful venipunctures and 5 documented skin punctures and a current ASPT membership. A final exam is required.	American Society of Phlebotomy Technicians (ASPT)	www.aspt.org

160	Certified Phlebotomy Technician (CPT)	NATHA007	Certified Phlebotomy Technician, draw blood from patients in hospitals, blood centers, or similar facilities for analysis or other medical purposes. As a CPT, you may perform some or all of the following tasks: Perform basic phlebotomy procedures Evaluate patients for ability to withstand venipuncture procedure ;Explain the venipuncture procedure and answer patient questions; Perform basic point of care testing, such as blood glucose levels on patients ; Prepare blood, urine, and other body fluid specimens for testing according to established standards; Benefits to obtaining a Phlebotomy Certification may include: more job opportunities, an increased pay scale, job security, and increased subject matter expertise.	To be eligible to earn an NHA Certification, candidates must have a High School Diploma or the equivalent and have successfully completed a training program or one year of work experience within the field. Training/work experience must include a minimum of 30 successful venipunctures and 10 successful capillary sticks. These venipuncture and capillary sticks must be performed on live individuals. Candidates must provide written proof of training or experience and/or documentation of education completion upon request. To earn a Certified Phlebotomy Technician (CPT) certification, candidates have 1 hour and 50 minutes to complete 110 multiple choice questions. Content includes: Patient Preparation (23 questions), Collection Techniques (40 questions), Processing (27 questions), and Safety and Compliance (10 questions). Candidates must pass with a scaled score of 390 or higher out of 500.	National Healthcareer Association	www.nhanow.com
161	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. The certification covers the role of the supervisor, communication skills, interpersonal skills, introduction to finance and budgeting, leadership and motivation, safety, time management and planning, business law, interviewing and hiring, conflict resolution and problem solving and teambuilding.	The Certified Plant Supervisor (CPS) certification requires 100 true/false and multiple-choice questions. A score of 70% is required to pass. Minimum of two years experience in plant/facility supervisory capacity or a minimum of three years in the field overall with an employment verification form.	Associates for Facilities Engineering	www.afe.org
162	Certified Professional Coder - Hospital Outpatient (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.	Although not require, AAPC recommends having an associate's degree. Requirements include: Paying the examination fee at the time of application submission, maintaining current membership with the AAPC and A CPC-H® must have at least two years medical coding experience (member's with an apprentice designation are not required to have two years medical coding experience.) Membership is required to be renewed annually and 36 Continuing Education Units (CEU's) must be submitted every two years for verification and authentication of expertise. Effective January 2010 all exams will be reported with exact scores. The CPC-H® exam will report the top three areas of weakness.	American Academy of Professional Coders (AAPC)	www.aapc.com/certification/index.aspx
163	Certified Professional Estimator (CPE)	AMSP001	The Certified Professional Estimator (CPE) certification is designed to evaluate the CPE candidate's overall knowledge of estimating which includes quantities, contract terms and conditions, cost reporting, ethics, and other fundamentals of estimating.	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
164	Certified Professional Public Buyer (CPPB)	UPPC001	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.upcc.org
165	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
166	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
167	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.cc-institute.org

168	Certified Respiratory Therapist (CRT)	NBFR001	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.	Applicants shall be 18 years of age or older. Applicants shall satisfy ONE of the following educational requirements: A) Applicants shall have a minimum of an associate degree from a respiratory therapy education program accredited by the Commission on Accreditation for Respiratory Care (CoARC) or accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). B) Applicants enrolled in an accredited respiratory therapy program in an institution offering a baccalaureate degree may be admitted to the CRT Examination with a "special certificate of completion" issued by a sponsoring educational institution. The CoARC will authorize such institutions to issue the "special certificate of completion" at the advanced-level following completion of the science, general academic and respiratory therapy coursework commensurate with the requirements for accreditation. 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.nbrcc.org
169	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
170	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.	Certification requirements are a bachelor's degree, CSDA certification holder, an educator at the post-baccalaureate level and full member of the IEEE.	Institute of Electrical and Electronics Engineers (IEEE) Computer Society	www.computer.org
171	Certified Solidworks Associate-Academic (CSWA-Academic)	SOLID003	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-Academic) will stand out from the crowd in today's competitive job market. CSWA-Academic 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 PDM/PLM.	Dassault Systems Solidworks Corporation	www.solidworks.com/pages/services/Training/Training.html
172	Certified Surgical Technologist (CST)	NSTSA001	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). Or if you are currently or previous certified as a CST.	National Board of Surgical Technologist and Surgical Assisting	www.nbtsa.org
173	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
174	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
175	Certified Veterinary Assistant (CVA)	FLVMA002	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.	Florida Veterinary Medical Association	www.fvma.com/
176	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
177	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 (PWO-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
178	Chief Architect Certified Apprentice	CARCH002	The certification provide an achievement process for demonstrating competency in using Chief Architect software (drafting, designers, architects, building and remodeling of Certification is available to Professional Designers, Academic Instructors and Students.	The User Certification Exam is a half-day proctored exam consisting of hands-on use of the program with fill-in-the-blank questions developed from over 20 competency areas.	Chief Architect, Inc	www.chiefarchitect.com
179	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 comprehensive List for program year 2014-2015.	Chief Architect, Inc	www.chiefarchitect.com

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180		Cisco Certified Architect	CISCO009	Cisco Certified Architect is the highest level of accreditation achievable within the Cisco Career Certification Program. It recognizes the architectural expertise of network designers who can gather business requirements and objectives necessary to produce a blueprint for an integrate, large-scale, complex, global network.	Prerequisite: Valid CCDE certification. Three main components in the Cisco Certified Architect Certification process: (1) Application for entry into the program; (2) Pre-Board Exam work; and (3) Board Exam.	Cisco Systems, Inc.	www.cisco.com
181		Cisco Certified Design Associate (CCDA®)	CISCO001	Cisco Certified Design Associate (CCDA) validates knowledge required to design routed and switched network infrastructures and services involving LAN, WAN, and broadband access for business organizations.	Prerequisites: CCNA level knowledge and Building Cisco Multi-layer Switched Networks (BCMSN) level knowledge. Required exam: 640-863 DESGN , 90 minutes (65 questions). Recommended Training: Designing for Cisco Internetwork Solutions (DESGN)	Cisco Systems, Inc.	www.cisco.com
182		Cisco Certified Design Expert (CCDE)	CISCO010	CCDE validates advanced network infrastructure design principles and fundamentals for large networks. It also allows a network professional to demonstrate an ability to develop solutions which address planning, design, integration, optimization, operations, security and ongoing support focused at the infrastructure level for customer networks.	Recommended the candidate have an in-depth understanding of network design in the areas of routing, tunneling, Quality of Service, Management, Cost, Capacity, and Security. Minimum of seven years job experience. To become certified, candidate must pass both a two-hour written qualification exam AND the CCDE Practical exam.	Cisco Systems, Inc.	www.cisco.com
183		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
184		Cisco Certified Entry Network Technician (CENT)	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.	The 640-822 Interconnecting Cisco Networking Devices Part 1 (ICND1) is the exam associated with the Cisco Certified Entry Network Technician certification and a tangible first step in achieving the Cisco Certified Network Associate certification. Candidates can prepare for this exam by taking the Interconnecting Cisco Networking Devices Part 1 (ICND1) v1.1 course. This exam tests a candidate's knowledge and skills required to successfully install, operate, and troubleshoot a small branch office network. The exam includes topics on networking fundamentals; connecting to a WAN; basic security and wireless concepts; routing and switching fundamentals; the TCP/IP and OSI models; IP addressing; WAN technologies; operating and configuring IOS devices; configuring RIPv2, static and default routing; implementing NAT and DHCP; and configuring simple networks. This exam is a 75 minute exam with 40-50 questions.	Cisco Systems, Inc.	www.cisco.com
185		Cisco Certified Internetwork Expert Routing and Switching (CCIE® Routing & Switching)	CISCO018	CCIE R&S certifies the expert-level skills required to plan, prepare, operate, monitor and troubleshoot complex converged networks. Professionals who achieve CCIE have demonstrated their technical skills at the highest level.	The CCIE R&S written exam is a two-hour qualification exam with 90-110 questions taken online at a Cisco authorized Pearson VUE testing center. The questions are a combination of multiple choice and more complex, interactive items that assess technical knowledge on topics such as IP, IP routing, bridging and switch-related technologies, and some equipment commands. The exam is closed book and no outside reference materials are allowed. Candidates for CCIE R&S certification must first pass a written qualification exam and then the corresponding hands-on lab exam. Each written exam version is offered first in beta form. A passing grade on the beta qualifies a candidate to schedule the lab exam. A candidate is expected to have an in-depth understanding of the topics in the exam blueprints and strongly encouraged to have three to five years of job experience before attempting certification. The overall exam score will be reported on a scale from 300-1000.	Cisco Systems, Inc.	www.cisco.com
186		Cisco Certified Internetwork Expert Security (CCIE Security)	CISCO019	The CCIE Security Certification certifies expertise with specific security protocols and components, as well as IP and IP routing.	The CCIE Security written exam is a two-hour qualification exam with 100 questions taken online at a Cisco authorized Pearson VUE testing center. The questions cover areas such as security protocols, operating systems, application protocols, security technologies, and Cisco security applications. The exam is closed book and no outside reference materials are allowed. The overall written exam score will be reported on a scale from 300-1000. Candidates for CCIE Security certification must first pass a written qualification exam and then the corresponding hands-on lab exam. Each written exam version is offered first in beta form. A passing grade on the beta qualifies a candidate to schedule the lab exam. The CCIE Security lab exam begins with a brief Core Knowledge section, consisting of four questions requiring a short typed response, generally no more than four or five words. Candidate have up to 30 minutes to complete the four questions and may move on to the rest of the exam if they finish early. No access to the Cisco documentation is provided during this part of the exam and candidates may not return to the Core Knowledge questions once they have moved on. Core Knowledge questions cover material from the list of exam topics and well-prepared candidates should be able to answer the questions without difficulty. All candidates must pass the Core Knowledge section in order to achieve CCIE certification.	Cisco Systems, Inc.	www.cisco.com

187	Cisco Certified Internetwork Expert Service Provider (CCIE Service Provider)	CISCO020	CCIE Service Provider certifies expert-level knowledge and skill for building an extensible Service Provider infrastructure to deliver rich managed services.	<p>The CCIE Service Provider written exam is a two-hour qualification exam with 90-110 questions taken online at a Cisco authorized Pearson VUE testing center. The questions cover areas such as Layer 2 networking, IP protocols, MPLS, VPN, security, quality of service and high availability technologies. The exam is closed book and no outside reference materials are allowed. The overall written exam score will be reported on a scale from 300-1000.</p> <p>Candidates for CCIE Service Provider certification must first pass a written qualification exam and then the corresponding hands-on lab exam. Each written exam version is offered first in beta form. A passing grade on the beta qualifies a candidate to schedule the lab exam. The CCIE Service Provider lab exam begins with a brief Core Knowledge section, consisting of four questions requiring a short typed response, generally no more than four or five words. Candidate have up to 30 minutes to complete the four questions and may move on to the rest of the exam if they finish early. No access to the Cisco documentation is provided during this part of the exam and candidates may not return to the Core Knowledge questions once they have moved on. Core Knowledge questions cover material from the list of exam topics and well-prepared candidates should be able to answer the questions without difficulty. All candidates must pass the Core Knowledge section in order to achieve CCIE certification.</p>	Cisco Systems, Inc.	www.cisco.com
188	Cisco Certified Internetwork Expert Voice (CCIE Voice)	CISCO022	Certified CCIE Voice experts are capable of building and configuring complex end-to-end telephony networks, troubleshooting and resolving VoIP-related problems and ensuring quality of service using in-depth understanding of Layer 2 and 3 network infrastructure.	<p>The CCIE Voice written exam is a two-hour qualification exam with 100 questions taken online at a Cisco authorized Pearson VUE testing center. The questions cover areas such as technologies and applications that comprise a Cisco Enterprise VoIP solution. The exam is closed book and no outside reference materials are allowed. The overall written exam score will be reported on a scale from 300-1000.</p> <p>Candidates for CCIE Voice certification must first pass a written qualification exam and then the corresponding hands-on lab exam. Each written exam version is offered first in beta form. A passing grade on the beta qualifies a candidate to schedule the lab exam. The CCIE Voice lab exam is an eight-hour, hands-on exam which requires you to configure a Cisco enterprise voice solution over an IP network. Although basic network connectivity is provided, you will be responsible for configuring the pre-installed applications to satisfy the requirements of the lab, and to troubleshoot important parameters of a voice network, such as quality of service, VLANs, gateways and gatekeepers.</p>	Cisco Systems, Inc.	www.cisco.com
189	Cisco Certified Internetwork Expert Wireless (CCIE Wireless)	CISCO023	The Cisco CCIE Wireless certification assesses and validates wireless expertise. Candidates who pass the CCIE Wireless certification exams must demonstrate broad theoretical knowledge of wireless networking and a solid understanding of wireless LAN technologies from Cisco.	<p>The CCIE Wireless written exam is a two-hour qualification exam with 100 questions taken online at a Cisco authorized Pearson VUE testing center. The questions cover areas will validate that professionals have the expertise to plan, design, implement, operate and troubleshoot Enterprise WLAN networks. The exam is closed book and no outside reference materials are allowed. The overall written exam score will be reported on a scale from 300-1000.</p> <p>Candidates for CCIE Wireless certification must first pass a written qualification exam and then the corresponding hands-on lab exam. Each written exam version is offered first in beta form. A passing grade on the beta qualifies a candidate to schedule the lab exam. The CCIE lab exam is an eight-hour, hands-on exam which requires you to configure a series of networks to given specifications. The lab focuses on implementing Enterprise WLAN solutions, such as implementing the Autonomous infrastructure, Unified infrastructure, Unified Controllers and AP's, Unified WCS and Location and implementing Voice over Wireless. Candidates are expected to demonstrate expert level wireless skills as well as troubleshooting skills to diagnose and solve issues as part of the CCIE lab exam.</p>	Cisco Systems, Inc.	www.cisco.com
190	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
191	Cisco Certified Network Associate Security (CCNA® Security)	CISCO011	<p>The 640-553 IINS exam is associated with the CCNA Security certification. The 640-553 exam tests a candidate's knowledge of securing Cisco routers and switches and their associated networks. It leads to validated skills for installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices and develops competency in the technologies that Cisco uses in its security infrastructure.</p> <p>The CCNA Security curriculum emphasizes core security technologies, the installation, troubleshooting and monitoring of network devices to maintain integrity, confidentiality and availability of data and devices, and competency in the technologies that Cisco uses</p>	A valid CCNA or any CCIE Certification can act as a pre-requisite. The 640-553 Implementing Cisco IOS Network Security (IINS) exam is required for the CCNA Security certification. This exam tests a candidate's knowledge of securing Cisco routers and switches and their associated networks. The following course is the recommended training for this exam: Implementing Cisco IOS Network Security (IINS) v1.0.	Cisco Systems, Inc.	www.cisco.com

192	Cisco Certified Network Associate Voice (CCNA® Voice)	CISCO012	The Cisco Certified Network Associate Voice (CCNA® Voice) validates associate-level knowledge and skills required to administer a voice network. The Cisco® CCNA Voice certification confirms that the required skill set for specialized job roles in voice technologies such as voice technologies administrator, voice engineer, and voice manager. It validates skills in VoIP technologies such as IP PBX, IP telephony, handset, call control, and voicemail solutions.	Candidates for CCNA Voice must take one of two exams (640-460 IUC or 642-436 CVOICE 6.0) The 640-460 Implementing Cisco IOS Unified Communications (IUC) exam is associated with the CCNA Voice certification. This exam confirms basic IP telephony installation, configuration, and maintenance skills by testing a candidate's knowledge of implementing and configuring small- to medium sized IP Telephony solutions using Cisco Unified Communications Manager Express, Cisco Unity Express, and the UC500 Smart Business Communications System solutions. Exam 640-460 IUC requires candidates to answer 60-70 questions within a 90 minute period.	Cisco Systems, Inc.	www.cisco.com
193	Cisco Certified Network Associate Wireless (CCNA® Wireless)	CISCO013	The CCNA Wireless Certification exam, 640-721, validates candidate's skills in the configuration, implementation and support of wireless LANs, specifically those networks using Cisco equipment. The exam covers configuring, monitoring and troubleshooting basic tasks of a Cisco WLAN in SMB and Enterprise networks.	The 642-436 Cisco Voice over IP (CVOICE) is the exam associated with the Cisco Certified Network Associate Voice (CCNA Voice) certification. The 640-721 Implementing Cisco Unified Wireless Network Essential (IUWNE) exam is the exam associated with the CCNA Wireless certification. This exam tests a candidate's knowledge of installing, configuring, operating, and troubleshooting small to medium-size WLANs. Candidates can prepare for this exam by taking the Implementing Cisco Unified Wireless Network Essential (IUWNE) course. Examinees have 90 minutes to complete 75-85 questions.	Cisco Systems, Inc.	www.cisco.com
194	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
195	Cisco Certified Network Professional (CCNP) Voice	CISCO007	CCVP validates advance knowledge and skills in implementing, operating, configuring, and troubleshooting a converged IP network.	Prerequisites: CCNA Voice or any CCIE Certification. Five Required exam(s): 642-436 CVOICE; 642-446 CIPT1; 642-642 QoS; 642-456 CIPT2; and 642-426 TUC Recommended Training: Cisco Voice over IP (CVOICE v6.0) and Cisco Voice over IP Fundamentals (CVF v1.0); Implementing Cisco Unified Communications Manager Part 1 (CIPT1 v6.0); Quality of Service (QoS); Implementing Cisco Unified Communications Manager Part 1 (CIPT2 v6.0); and Troubleshooting Cisco Unified Communications Systems (TUC v1.0).	Cisco Systems, Inc.	www.cisco.com
196	Cisco Certified Network Professional Wireless (CCNP® Wireless)	CISCO017	CCNP Wireless certification exams (642-731, 642-736, 642-741 and 642-746) address the need for designing, implementing, and operating Cisco Wireless networks and mobility infrastructures and emphasizes wireless networking principles and theory. The certification also recognizes the expertise and technical acumen of wireless professionals who can assess and translate network business requirements into technical specifications that in turn, are incorporated into successful installations.	A candidate for this certification must pass four separate exams. The four exams are: Conducting Cisco Unified Wireless Site Survey (642-731); Implementing Cisco Unified Wireless Voice Networks (642-741); Implementing Cisco Unified Mobility Services (642-746); and Implementing Advanced Cisco Unified Wireless Security (642-736).	Cisco Systems, Inc.	www.cisco.com
197	CompTIA A+ Certification	COMPT001	CompTIA A+ confirms a technician's ability to perform tasks such as installation, configuration, diagnosing, preventive maintenance and basic networking.	Two exams are necessary to be certified: CompTIA A+ Essentials, exam code 220-701; and CompTIA A+ Practical Application, exam code 220-702. Each exam consists of 100 exam questions with a test time limit of 90 minutes. CompTIA A+ Essentials measures the necessary competencies of an entry-level IT professional with a recommended 500 hours of hands-on experience in the lab or field. It tests for technical understanding of computer technology, networking and security, as well as the communication skills and professionalism now required of all entry-level IT professionals. Examinees must pass the CompTIA A+ Essentials with 675 or higher (on a scale of 100-900).	Computing Technology Industry Association (CompTIA)	www.comptia.org
198	CompTIA CDIA+ Certification	COMPT002	The CompTIA Certified Document Imaging Architect (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
199	CompTIA Linux+ (Powered by LPI)	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
200	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+). The current version of CompTIA Network+, exam code N10-005, was released Dec. 1, 2011. The revised objectives address virtual networking and give increased attention to network security and coverage of the seven-layer OSI (Open System Interconnection) model. The previous version, exam code N10-004, will be available through Aug. 31, 2012.	Computing Technology Industry Association (CompTIA)	www.comptia.org
201	CompTIA PDI+	COMPT012	CompTIA PDI+ is an entry level certification that proves competence in basic maintenance of printers, scanners, copiers, and fax machines. It covers a technician's understanding of basic electromechanical components and tools, print engine and scan processes and components, color theory, connectivity and networking.	It is recommended that entry-level candidates have foundation-level knowledge or hands-on experience working with printing and document imaging devices. The certification exam is 90 minutes and 85 questions. The minimum passing score is 675 on a scale of 100-900.	Computing Technology Industry Association (CompTIA)	www.comptia.org

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202	CompTIA Project+	COMPT007	CompTIA Project+ is a globally recognized project management certification that identifies qualified and quality project managers. The CompTIA Project+ certification is an international, vendor-neutral certification that covers the entire project life cycle from initiation and planning through execution, acceptance, support and closure. CompTIA Project+ covers the business and technical project management skills needed to successfully manage business projects. It emphasizes getting buy-in from stakeholders, proper scheduling and budget control.	The CompTIA Project+ exam is required. The exam covers pre-project set-up/initiating; project planning; project execution and delivery; change, control and communication; and project closure. Recommended experience is one year managing, directing, or participating in small to medium scale projects.	Computing Technology Industry Association (CompTIA)	www.comptia.org
203	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
204	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
205	Concrete Flatwork Finisher/Technician (ACI Craftsman Certification Program)	AMCII001	A Concrete Flatwork Finisher is a craftsman who has demonstrated the ability to place, consolidate, finish, edge, joint, cure and protect concrete flatwork (a Concrete Flatwork Technician is a person who is knowledgeable about Flatwork Finisher proper procedures, but who lacks sufficient work experience to qualify as a Concrete Flatwork Finisher). The program requires knowledge in the following areas of concrete construction: Basic concrete technology; Concrete materials and mix proportioning; Concrete control tests; Proper use of finishing tools; Placing, consolidation, and finishing; Edging, jointing, curing, and protection.	To become a Flatwork Finisher, ACI will grant certification only to those applicants who obtain a passing grade on the written examination, and possess either: 1) One year (1500 hours) of approved work experience and successfully complete the ACI performance examination or 2) Possess three years (4500 hours) of approved work experience and successfully complete the Alternative Performance Affidavit (Form D16). Individuals with Flatwork Technician certification can upgrade to full Flatwork Finisher status upon submittal and approval of sufficient work experience, and successful completion of the ACI performance evaluation.	American Concrete Institute International (ACI)	www.aci-int.org
206	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 (ACI)	www.aci-int.org
207	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	www.iscet.org/certification/index.html
208	Emergency Medical Technician (EMT)	NREMT001	An emergency medical technician is a person trained and certified to appraise and initiate the administration of emergency care for victims of trauma or acute illness before or during transportation of victims to a health care facility.	National EMT certification requires successful completion of both a cognitive and psychomotor exam. Passed portions of the exam (both cognitive and psychomotor) remain valid for a twelve (12) month period. Cognitive Exam is an online computer adaptive test (CAT). The exam questions range from 70 to 120 with a maximum allowed time of 2 hours. Cognitive exam covers: Airway, Ventilation, Oxygenation; Trauma; Cardiology; Medical; and EMS Operations Effective January 1, 2012 the following additional content may be included on the Cognitive Exam: Pulse oximetry; ATV; Humidified oxygen; Partial rebreather mask, simple face mask, Venturi mask, tracheostomy mask; Mechanical CPR device; Hemorrhage control (direct/tourniquet); Oral aspirin; Assisting patients w/self medication. Items related to patient care are focused on adult patients (85%) and pediatric patients (15%). In order to pass the exam, a candidate must meet a standard level of competency. The passing standard is defined by the ability to provide safe and effective entry level emergency medical care. Psychomotor Exam- A candidate must demonstrate competence in the following skills during your course: Patient assessment/mgmt of a trauma patient; Patient assessment/mgmt of a medical patient; Cardiac arrest management/AED; Bag-valve-mask ventilation of an apneic patient; Spinal immobilization (both seated and supine patient); Long bone fracture immobilization; Joint dislocation immobilization; Traction splinting; Bleeding control/shock management; Upper airway adjuncts and suction; Mouth-to-mouth ventilation with supplemental oxygen; and Supplemental oxygen administration to a breathing patient.	National Registry of Emergency Medical Technicians	www.nremt.org
209	Engineering Core Certification	FLENG001	The engineering Core Certification represents acknowledgement by industry of the core or foundational engineering skills and knowledge achieved by secondary students enrolled in Project lead the Way's (PLTW) Pathways to Engineering (PTE) curriculum. To earn the certification, students must pass the end-of-course assessments for any three PTE courses with a minimum score of eighty (80) percent.	Prior to march 31 of each year, PLTW Pathways to Engineering teachers submit the names of students meeting the above criteria to the Florida PLTW Director for validation. Upon verification of eligibility, the Florida PLTW Director will submit the list of certification candidates to the Florida Engineering Society (FES) for generation of the official certificate. FES will prepare and mail certificates to students within 30 days of receiving the list of candidates. all exams are administered by Northwest Educational Association (NWEA) via an online testing portal.	Florida Engineering Society	www.fleng.org

210	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/licenses_certificates
211	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/licenses_certificates
212	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
213	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.	Federal Aviation Administration	www.faa.gov/licenses_certificates
214	FAA Aviation Mechanic General	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/licenses_certificates
215	FAA Basic Ground Instructor	FEDAA015	A certified basic ground instructor is certified 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. There are three ratings of Ground Instructors: Basic, Advanced, and Instrument. These ratings entitle instructors to different training privileges.	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/licenses_certificates
216	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 regency 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; hold a commercial or ATP certificate; hold at least a current third-class FAA medical certificate; 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. Successful completion of a practical test that will be given as a final exam by an FAA inspector as specified in the FAA's Flight Instructor Practical Test Standards is also required. Flight instructors can achieve different pilot ratings – i.e. instrument rating, multi-engine class rating, etc. These ratings add privileges to an existing Certified Flight Instructor (CFI) Certificate.	Federal Aviation Administration	www.faa.gov/licenses_certificates
217	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 regency 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/licenses_certificates
218	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 regency 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/licenses_certificates

DGD-Certification does not meet all requirements. Certifications has been slated for removal from the Career and Professional Education Act Comprehensive List for program year 2014-2015.

219	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
220	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/licenses_certificates
221	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 check ride with a designated pilot examiner, you must take and pass (70 percent or better) an FAA airman knowledge test at an approved computer	Federal Aviation Administration	www.faa.gov/licenses_certificates
222	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/licenses_certificates
223	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/licenses_certificates
224	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-around; 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/licenses_certificates
225	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

226	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
227	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
228	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	wireless.fcc.gov/commoperators/
229	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	wireless.fcc.gov/commoperators/
230	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
231	Fire Fighter I	FLSFM005	The Firefighter I Training Program, which includes the National Fire Protection Association (NFPA) Firefighter I and Florida specific requirements, consists of a minimum of 206 hours of training. 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.	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

232	Fire Fighter II	FLSFM006	The minimum standards certification course for certified Firefighter II's is a mentally, physically, and emotionally challenging program that includes extensive classroom and practical elements. The "Minimum Standards Course" collectively for Firefighter training is 398 hours IAW 69A-37.055 F.A.C.	Minimum qualifications for certification as a firefighter: 1) be at least 18yrs of age; 2) have a high school diploma or equivalent, as the term may be determined by the division; 3) Not have been convicted of a misdemeanor relating to the certification or to perjury or false statements, or a felony or a crime punishable by imprisonment of 1 year or more under the law of the United States or of any state thereof or under the law of any other country or dishonorably discharged from any of the Armed Forces of the United States. 4) Submit a set of fingerprints to the division with a current processing fee. The fingerprints will be forwarded to the Department of Law Enforcement for state processing and forwarded by the Department of Law Enforcement to the Federal Bureau of Investigation for national processing. 5) Have a good moral character as determined by investigation under procedure established by the division; 6) be in excellent physical condition; 7) Be a nonuser of tobacco or tobacco products for at least 1 year immediately preceding application, as evidenced by the sworn affidavit of the applicant; 8) Satisfactorily completes the Minimum Standards Course.	Florida Department of Financial Services, State Fire Marshall, Bureau of Fire Standards & Training	www.myfloridacfo.com/sfm
233	Florida Automobile Dealers Association (FADA) Certified Technician	FLADA001	The Florida Automobile Dealers Association (FADA) Certified Technician is designed to leverage the talents and abilities of individuals pursuing a career in the automotive service industry, enhance career opportunities through the acquisition of an industry recognized certification, provide third-party assessments as a means of independent quality control, and support economic recovery initiatives in Florida.	The certification is awarded to those persons passing the certification examination's four-hour long assessment, which includes Safety, Brakes, and Electrical/Electronic Systems. Assessments will be taken online and proctored by trained proctors at locations throughout the state. First testing date is to be announced by November 2011 for a test date in April/May 2012	Florida Automobile Dealers Association (FADA)	www.fiada.org/certification
234	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
235	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 (NCATT)	www.ncatt.org
236	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
237	Global Logistics Associate	AMSTL003	The Global Logistics Associate (GLA) is a nationally recognized certification program that acknowledges completion of rigorous coursework in logistics and supply chain for entry level positions. This certification program focuses on a general knowledge of logistics/supply chain and the associated functions necessary for delivery of goods and requires the successful completion of a comprehensive exam.	To be eligible to register for the GLA exam, an individual must meet the following criteria: -Completion of an ASTL approved high school career academy -or successful completion of the ASTL exam. The exam is administered in January and April.	American Society of Transportation & Logistics	www.astl.org
238	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
239	HP (Hewlett-Packard) Applied Technical Associate (HP-ATA) - Cloud	HPCPY002	The HP ATA – Cloud certification provides the knowledge and experience required to discover a customer's business objectives and to design an end-to-end IT solution that meets the customer's requirements. This includes on premises elements, hosted and cloud services. In addition, knowledge and skill to deploy and troubleshoot the solution are also included.	The student is required to take the HP ATA Cloud course and exam. Each course is designed to be delivered within a single semester and includes both academic and practical elements.	Hewlett-Packard	www.hp.com/go/certification
240	HP (Hewlett-Packard) Applied Technical Associate (HP-ATA) - Connected Devices	HPCPY001	The HP ATA - Connected Devices certification provides the knowledge and experience required to discover a customer's business objectives and to design a PC client and connected device solution that meets the customer's requirements. In addition, knowledge and skill to deploy and troubleshoot the solution are also included.	The student is required to take the HP ATA Connected Devices course and exam. Each course is designed to be delivered within a single semester and includes both academic and practical elements.	Hewlett-Packard	www.hp.com/go/certification
241	HP (Hewlett-Packard) Applied Technical Associate (HP-ATA) - Networks	HPCPY003	The HP ATA - Networks certification provides the knowledge and experience required to discover a customer's business objectives and to design a wired and wireless switched and routed solution that meets the customer's requirements. In addition, knowledge and skill to deploy and troubleshoot the solution are also included.	The student is required to take the HP ATA Networks course and exam. Each course is designed to be delivered within a single semester and includes both academic and practical elements.	Hewlett-Packard	www.hp.com/go/certification
242	HP (Hewlett-Packard) Applied Technical Associate (HP-ATA) - Servers & Storage	HPCPY004	The HP ATA – Servers & Storage certification provides the knowledge and experience required to discover a customer's business objectives and to design an application hosting and data storage solution that meets the customer's requirements. In addition, knowledge and skill to deploy and troubleshoot the solution are also included.	The student is required to take the HP ATA Servers & Storage course and exam. Each course is designed to be delivered within a single semester and includes both academic and practical elements.	Hewlett-Packard	www.hp.com/go/certification
243	HVAC Excellence Employment Ready - Air Conditioning	HVACE002	HVAC Excellence Employment Ready-Air Conditioning. This certification provides knowledge in air conditioning and refrigeration theory, equipment service, systems and components, troubleshooting, refrigerant flow control theory and application.	This 100 question exam covers: air conditioning and refrigeration theory, equipment service, systems and components, troubleshooting, refrigerant flow control theory and application.	HVAC Excellence	www.hvacexcellence.org

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244	HVAC Excellence Employment Ready - Basic Refrigeration and Charging Procedures	HVACE012	HVAC Excellence Employment Ready-Basic Refrigeration and Charging Procedures. This certification provides knowledge in AC&R theory, AC&R systems and components, air supply and delivery, refrigeration AC troubleshooting, refrigeration systems and components, refrigeration theory and application, special refrigeration system components, system charging.	This 50 question exam covers: AC&R theory, AC&R systems and components, air supply and delivery, refrigeration AC troubleshooting, refrigeration systems and components, refrigeration theory and application, special refrigeration system components, system charging.	HVAC Excellence	www.hvacexcellence.org
245	HVAC Excellence Employment Ready - Electric Heat	HVACE004	HVAC Excellence Employment Ready-Electric Heat. This certification provides knowledge in systems & components, equipment - installation & service, heating systems & components, safety, theory & application, troubleshooting.	This 100 question exam covers: systems & components, equipment - installation & service, heating systems & components, safety, theory & application, troubleshooting.	HVAC Excellence	www.hvacexcellence.org
246	HVAC Excellence Employment Ready - Electrical	HVACE011	HVAC Excellence Employment Ready Electrical This certification provides knowledge in components, meter usage, safety, theory, troubleshooting, fundamentals of motors and capacitors, interpreting electrical diagrams.	This 100 question exam covers: components, meter usage, safety, theory, troubleshooting, fundamentals of motors and capacitors, interpreting electrical diagrams.	HVAC Excellence	www.hvacexcellence.org
247	HVAC Excellence Employment Ready - Gas Heat	HVACE006	HVAC Excellence Employment Ready Gas Heat This certification covers: combustion theory, electrical troubleshooting, furnace installation & service, furnace troubleshooting, heating safety, heating system & components.	This 100 question exam covers: combustion theory, electrical troubleshooting, furnace installation & service, furnace troubleshooting, heating safety, heating system & components.	HVAC Excellence	www.hvacexcellence.org
248	HVAC Excellence Employment Ready - Heat Pump	HVACE001	HVAC Excellence Employment Ready Heat Pump This certification covers: components, controls, heat pump cycle, service, theory, troubleshooting, interpreting heat pump schematics.	This 100 question exam covers: components, controls, heat pump cycle, service, theory, troubleshooting, interpreting heat pump schematics.	HVAC Excellence	www.hvacexcellence.org
249	HVAC Excellence Employment Ready - Light Commercial Air Conditioning	HVACE003	HVAC Excellence Employment Ready Light Commercial Air Conditioning This certification covers: commercial AC systems & components, equipment installation & service, refrigeration theory & application, troubleshooting.	This 100 question exam covers: commercial AC systems & components, equipment installation & service, refrigeration theory & application, troubleshooting.	HVAC Excellence	www.hvacexcellence.org
250	HVAC Excellence Employment Ready - Oil Heat	HVACE009	HVAC Excellence Employment Ready Oil Heat This certification covers: combustion theory and heating fuels, safety, heating systems and components, installation & service, troubleshooting.	This 100 question exam covers: combustion theory and heating fuels, safety, heating systems and components, installation & service, troubleshooting.	HVAC Excellence	www.hvacexcellence.org
251	HVAC Excellence Employment Ready - Residential & Light Commercial Hydronic Heat	HVACE014	HVAC Excellence Employment Ready-Residential & Light Commercial Hydronic Heat This certification covers: theory & principle, installation, design & function, system service, component recognition.	This 100 question exam covers: theory & principle, installation, design & function, system service, component recognition.	HVAC Excellence	www.hvacexcellence.org
252	HVAC Excellence Employment Ready - System Diagnostics & Troubleshooting Fuel Oil Combustion	HVACE013	HVAC Excellence Employment Ready – Systems Diagnostics & Troubleshooting Fuel Oil combustion This certification covers: recovery requirements, AC&R Theory, air supply and delivery, AC&R equipment and tools, AC&R systems and components, system evacuation. The fuel oil combustion general combustion knowledge, fuel properties, advanced combustion knowledge, combustion analysis, draft.	This series of two 50 question exams covers: recovery requirements, AC&R Theory, air supply and delivery, AC&R equipment and tools, AC&R systems and components, system evacuation, general combustion knowledge, fuel properties, advanced combustion knowledge, combustion analysis, draft.	HVAC Excellence	www.hvacexcellence.org
253	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
254	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
255	IEMSR - Emergency Medical Responder	IEMSR001	This certification covers the evaluation, treatment, stabilization, and transport of a patient that suffers from an illness or trauma. Students completing the secondary program in Emergency Medical Responder are eligible to sit for the certification. The minimum age for this certification is 16 years old.	To earn the credential, the student must pass with a 70% or higher for EMT and EMT-I. Those taking the Paramedic exam must pass with an 80% or higher. All practical exams must be completed as well. All certifications are valid for two years.	International EMS Registry	www.iemsr.org
256	Information Systems Security Management Professional (ISSMP)	IISSCO01	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 CISP 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 CISP 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 CISP 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
257	IPC J-STD-001 Certification	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
258	Junos - Juniper Network Certified Internet Associate (JNCIA)	JUNOS001	The JNCIA certification verifies your basic understanding of Internet technology and related platform configuration and troubleshooting skills. This certification also allows for faster identification and resolution of issues; better and more complete understanding of networking principles and complete utilization of the function of Juniper gear.	The exam consists of 70 multiple choice questions and must be completed in 75 minutes. A minimum score of 80% is required to pass a certification exam.	Juniper Networks	www.juniper.net/certification
259	LabView Certification - The Associate Developer	NINSCO01	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.	Recommended Experience Level: Six or more months of LabVIEW development experience or LabVIEW Core 1 and 2 training with three or more months of LabVIEW development experience. A student must also pass the LabView Associate Developer exam.	National Instruments Corporation	www.ni.com/training

BGD Certification does not meet all requirements. Certifications has been slated for removal from the Career and Professional Education Act Comprehensive List for program year 2014-2015.

260	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). Candidates 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 (SME)	www.sme.org
261	License - Real Estate Sales Associate	FLDRE002	A sales associate is a person who, for another, and for compensation, appraises, auctions, sells, exchanges, buys, rents or offers, attempts or agrees to appraise, auction, or negotiate any sale, exchange, purchase, or rental of business enterprises or any real property or any interest in or concerning the same or who advertises the same, but who performs such act under the direction, control, or management of a broker or owner/developer. The Division of Real Estate protects the public by regulation of real estate and appraisal licensees pursuant to Chapter 475, Florida Statutes.	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 (a 63 hr course). An exam is also required.	FL Dept of Business and Professional Regulation, Div. of Real Estate	www.myflorida.com/dbpr/re/index.html
262	Licensed Dental Hygienist	FDMQA010	This licensure allows the individual to perform service for the public as a dental hygienist pursuant to requirements established in section 466.007, Florida Statutes. A qualified applicant must successfully complete the following to be licensed as a dental hygienist in this state: A written examination on the laws and rules of the state regulating the practice of dental hygiene; and A practical and 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.	Procedures for applying for this license may be viewed at http://www.doh.state.fl.us/mqa/dentistry/dn_lic_req.html#Dental%20Hygiene .	Florida Department of Health	www.doh.state.fl.us/mqa/
263	Licensed Practical Nurse	FDMQA017	Licensed Practical Nurse provides basic bedside care. Many LPNs measure and record patients' vital signs such as weight, height, temperature, blood pressure, pulse, and respiratory rate. They also prepare and give injections and enemas, monitor catheters, dress wounds, and give alcohol rubs and massages. To help keep patients comfortable, they assist with bathing, dressing, and personal hygiene, moving in bed, standing, and walking. They might also feed patients who need help eating. Experienced LPNs may supervise nursing assistants and aides, and other LPNs. As part of their work, LPNs collect samples for testing, perform routine laboratory tests, and record food and fluid intake and output. They clean and monitor medical equipment. Sometimes, they help physicians and registered nurses perform tests and procedures. Some LPNs help to deliver, care for, and feed infants. LPNs also monitor their patients and report adverse reactions to medications or treatments. LPNs gather information from patients, including their health history and how they are currently feeling. They may use this information to complete insurance forms, pre-authorizations, and referrals, and they share information with registered nurses and doctors to help determine the best course of care for a patient. LPNs often teach family members how to care for a relative or teach patients about good health habits.	The NCLEX is designed to test knowledge, skills and abilities essential to the safe and effective practice of nursing at the entry level. The NCLEX-PN* are variable length, computerized tests. The NCLEX is not offered in paper-and-pencil or oral examination formats. The NCLEX-PN examination can be anywhere from 85 to 205 items. Of these items, 25 are pretest items that are not scored. The time limit for this examination is five hours. Only boards of nursing can release NCLEX results to candidates. A student completes the requirements (set by the Board of Nursing (BON)) of an approved and/or 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
264	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 (ASQ)	www.asq.org
265	Manufacturing Skill Standards Council (MSSC) - Certified Logistics Technician (CLT)	MSSCN002	The Certified Logistics Technician (CLT) Certification addresses the mid-level core technical competencies of higher skilled, front-line material handling and distribution workers in all supply chain facilities: from factories to warehouses, distribution centers and transporters.	In order to earn the Certified Logistics Technician (CLT) certification, candidates must already have their Certified Logistics Associate (CLA) Certificate. The CLT certification is awarded only when a candidate has completed the application, submitted the registration and assessment fees and successfully completed the CLA and CLT assessments. The CLT assessment consists of 96 multiple choice questions. Candidates are allowed 120 minutes to complete the assessment. The primary method of delivery for MSSC assessments is through an online assessment process supported by NOCTI/The Whitener Group.	The Manufacturing Skill Standards Council (MSSC)	www.msscusa.org
266	Manufacturing Skill Standards Council (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 80-90 questions and candidate have 90 minutes to complete.	The Manufacturing Skill Standards Council (MSSC)	www.msscusa.org
267	Mastercam Associate Certification - Mill Design and Toolpaths	CNCISO02	The Mastercam University Mill Design & Toolpaths course provides training that exceeds the minimum requirements for the first level of Mastercam Certification (Mill-CPgmM). This course is the baseline Mastercam training at both major manufacturing companies and colleges throughout the United States. Course objectives include: Geometry; 2D High Speed Toolpaths (HST) and Feature Based Machining (FBM); Solids; Toolpath; and Operations Manager.	Students must score an 80% or above on each comprehensive online post exam (after each module) and an 80% or above on the final comprehensive online exam.	CNC Software, INC	www.mastercam.com

268	Mastercam Certified Programmer Mill Level 1 (CPgM1)	CNC5I001	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
269	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
270	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; Immunohematology, 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
271	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.	To be certified as MT(AAB), an individual must pass the appropriate AAB Board of Registry examination AND meet at least one (1) of the following requirements: A) Earn a doctoral, masters, or baccalaureate degree, or the equivalent, from an accredited university or college with a major in a chemical, physical, biological, or clinical laboratory science or medical technology. B) Successfully complete ninety (90) semester hours in an accredited university or college with a major in a chemical, physical, biological, or clinical laboratory science or medical technology. C) 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.	American Association of Bioanalysts (AAB)	www.aab.org
272	Microsoft Certified Architect (MCA) - Exchange Server	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
273	Microsoft Certified Architect (MCA) - SQL Server	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 2008. An individual must attend four weeks of classroom training on Microsoft SQL Server. The Microsoft Certified Master (MCM) certification is a prerequisite for all MCA Technology certifications.	Microsoft Corporation	www.microsoft.com/learning
274	Microsoft Certified Solutions Associate (MCSA) - SQL Server 2012	MICRO082	The Microsoft Certified Solutions Associate (MCSA) : SQL Server 2012 certification validates the essential skills and breakthrough insights needed in developing and maintaining the next wave of mission-critical environments.	A certification in SQL Server 2012 requires students to pass exam 461- Querying Microsoft SQL Server 2012, exam 462- Administering a Microsoft SQL Server 2012 Database and exam 463- Implementing Data Warehouse with Microsoft SQL Server 2012.	Microsoft Corporation	www.microsoft.com/learning
275	Microsoft Certified Solutions Associate (MCSA) - Windows 7	MICRO083	The Microsoft Certified Solutions Associate (MCSA) : Windows 8 certification validates that you have the expertise to configure and support a Windows 7 enterprise system.	A certification in Windows 7 requires students to pass exam 680-Configuring Windows 7 and exam 685- Windows 7, Enterprise Desktop Support Technician.	Microsoft Corporation	www.microsoft.com/learning
276	Microsoft Certified Solutions Associate (MCSA) - Windows 8	MICRO084	The Microsoft Certified Solutions Associate (MCSA) : Windows 8 certification validates the core expertise needed to configure, manage, and maintain a Windows 8 enterprise system.	A certification in Windows 8 requires students to pass exam 687- Configuring Windows 8 and exam 688- Managing and Maintaining Windows 8.	Microsoft Corporation	www.microsoft.com/learning
277	Microsoft Certified Solutions Associate (MCSA) - Windows Server 2008	MICRO085	The Microsoft Certified Solutions Associate (MCSA) : Windows Server 2008 certification validates a set of primary Windows Server skills, relevant across multiple solution areas.	A certification in Windows Server 2008 requires students to pass exam 640-Windows Server 2008 Active Directory, Configuring, exam 642-Windows Server 2008 Network Infrastructure, Configuring and exam 646- Windows Server 2008 Server Administrator.	Microsoft Corporation	www.microsoft.com/learning

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278	Microsoft Certified Solutions Associate (MCSA) - Windows Server 2012	MICRO086	The Microsoft Certified Solutions Associate (MCSA) : Windows Server 2012 certification validates a primary set of Windows Server skills that are relevant across multiple solution areas in a business environment.	A certification in Windows Server 2012 requires students to pass exam 410-Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services.	Microsoft Corporation	www.microsoft.com/learning
279	Microsoft Certified Solutions Expert (MCSE) - Business Intelligence	MICRO087	The Microsoft Certified Solutions Expert (MCSE): Business Intelligence certification validates the skills and techniques needed to design, build, and deploy solutions that deliver more data to more people across the organization.	MCSE: Business Intelligence - requires MCSA: SQL Server 2012 credential (exam 461- Querying Microsoft SQL Server 2012, exam 462- Administering a Microsoft SQL Server 2012 Database and exam 463- Implementing Data Warehouse with Microsoft SQL Server 2012) plus exam 466- Implementing Data Models and Reports with Microsoft SQL Server 2012 and exam 467- Designing Business Intelligence Solutions with Microsoft SQL Server 2012.	Microsoft Corporation	www.microsoft.com/learning
280	Microsoft Certified Solutions Expert (MCSE) - Communication	MICRO088	The Microsoft Certified Solutions Expert (MCSE): Communication certification validates your expertise in creating a consistent communications experience for your organization and connecting your colleagues to people around the world	MCSE: Communication- requires the MCSA: Windows Server 2012 credential (exam 410- Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services) plus exam 336- Core Solutions of Microsoft Lync Server 2013 and exam 337- Enterprise Voice and Online Services with Microsoft Lync Server 2013.	Microsoft Corporation	www.microsoft.com/learning
281	Microsoft Certified Solutions Expert (MCSE) - Data Platform	MICRO089	The Microsoft Certified Solutions Expert (MCSE):Data Platform certification validates your broad skill sets in building and administrating enterprise-scale data solutions both on-premises and in cloud environments.	MCSE: Data Platform - requires MCSA: SQL Server 2012 credential (exam 461- Querying Microsoft SQL Server 2012, exam 462- Administering a Microsoft SQL Server 2012 Database and exam 463- Implementing Data Warehouse with Microsoft SQL Server 2012) plus exam 464- Developing Microsoft SQL Server 2012 Database and exam 465 Designing Database Solutions for SQL Server 2012.	Microsoft Corporation	www.microsoft.com/learning
282	Microsoft Certified Solutions Expert (MCSE) - Desktop Infrastructure	MICRO090	The Microsoft Certified Solutions Expert (MCSE): Desktop Infrastructure certification validates your skills in desktop virtualization, remote desktop services, and application virtualization. It also shows that you can deploy and manage desktops and devices that provide access from anywhere, while maintaining security and compliance.	MCSE: Desktop Infrastructure - requires the MCSA: Windows Server 2012 credential (exam 410-Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services) plus exam 415 Implementing a Desktop Infrastructure and exam 416 Implementing Desktop Application Environment.	Microsoft Corporation	www.microsoft.com/learning
283	Microsoft Certified Solutions Expert (MCSE) - Messaging	MICRO091	The Microsoft Certified Solutions Expert (MCSE):Messaging validates your ability to move your company to the cloud, increase user productivity and flexibility, reduce data loss, and improve data security for your organization.	MCSE: Messaging- requires the MCSA: Windows Server 2012 credential (exam 410- Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services) plus exam 341- Core Solutions of Microsoft Exchange Server 2013 and exam 342- Advance Solutions of Microsoft Exchange Server 2013	Microsoft Corporation	www.microsoft.com/learning
284	Microsoft Certified Solutions Expert (MCSE) - Private Cloud	MICRO092	The Microsoft Certified Solutions Expert (MCSE): Private Cloud certification is designed to validate your expertise in managing and implementing Microsoft private cloud computing technologies. With Windows Server and System Center, you will build your Microsoft private cloud solution to optimize IT service delivery and gain the automation and flexibility you need for your IT infrastructure.	MCSE: Private Cloud - requires the MCSA: Windows Server 2012 (exam 410-Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services) plus exam 246 Monitoring and operating a Private Cloud with system center 2012 and exam 247 Configuring and Deploying a Private Cloud with system center 2012.	Microsoft Corporation	www.microsoft.com/learning
285	Microsoft Certified Solutions Expert (MCSE) - Server Infrastructure	MICRO093	The Microsoft Certified Solutions Expert (MCSE): Server Infrastructure certification validates that you have the skills needed to run a highly efficient and modern data center, with expertise in identity management, systems management, virtualization, storage, and networking.	MCSE: Server Infrastructure - requires the MCSA: Windows Server 2012 credential (exam 410-Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services) plus exam 413 Designing and Implementing a Server Infrastructure and exam 414 Implementing an Advance Server Infrastructure.	Microsoft Corporation	www.microsoft.com/learning
286	Microsoft Certified Solutions Expert (MCSE) - SharePoint	MICRO094	The Microsoft Certified Solutions Expert (MCSE): SharePoint certification validates your expertise in helping a company organize, sync, collaborate, and share information across the organization.	MCSE: SharePoint- requires the MCSA: Windows Server 2012 credential (exam 410- Installing and Configuring Windows Server 2012, exam 411-Administering Windows Server 2012 and exam 412-Configuring Advance Windows Server 2012 Services) plus exam 331- Core Solutions of Microsoft SharePoint Server 2013 and exam 332- Advance Solutions of Microsoft SharePoint Server 2013.	Microsoft Corporation	www.microsoft.com/learning
287	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
288	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 for Office 2003: Candidates must successfully complete three required exams: Word expert, Excel expert, and PowerPoint; and one elective exam: Access or Outlook. Master Certification for Office 2007: Candidates must successfully complete four required exams: MOS Word, MOS Excel, MOS PowerPoint, and MOS Outlook. Master Certification for Office 2010: Candidates must successfully complete three required exams: MOS Word Expert, MOS Excel Expert, and MOS PowerPoint 2010, and one elective exam: MOS Outlook 2010, MOS Onenote 2010, MOS SharePoint 2010, or MOS Access 2010.	Microsoft Corporation	www.microsoft.com/learning
289	Microsoft Office Specialist (MOS) Bundle Certification (3 out of 6 - Word, Excel, PowerPoint, Access, Outlook, SharePoint)	MICRO069	A Microsoft Office Specialist (MOS) certification helps validate proficiency in using Microsoft Office 2010 and meets the demand for the most up-to-date skills on the latest Microsoft technologies. Candidates who pass a certification exam show that they can meet globally recognized performance standards.	Candidates must pass three certification exams in order to earn a MOS bundle certification. Eligible exams include Office 2007 (77-601,77-602, 77-603, 77-604, 77-605) and Office 2010 (77-881, 77-882, 77-883, 77-884, 77-885, 77-886). Exams are primarily performance-based and conducted in a "live," or simulated, environment. Exam candidates are asked to perform a series of tasks to clearly demonstrate their skills. A typical exam takes up to 90 minutes.	Microsoft Corporation	www.microsoft.com/learning

DGD-Certification does not meet all requirements. Certifications has been slated for removal from the Career and Professional Education Act Comprehensive List for program year 2014-2015.

290	Microsoft Technology Associate (MTA) - .Net Fundamentals	MICRO073	Students who complete this certification have demonstrated their understanding .NET framework concepts, including event and exception handling, name spaces and classes, .NET code compilation, .NET file, I/O, and XML classes, and .NET security.	To earn this certification, candidates must pass the Microsoft Technology Associate - .NET Fundamentals (Exam 98-372).	Microsoft Corporation	www.microsoft.com/learning
291	Microsoft Technology Associate (MTA) - Database Administration Fundamentals	MICRO070	Students who complete this certification have demonstrated their understanding of core database concepts (DML, DDL, and RDBMS), how to create database objects (TSQL, data types, tables, and views), how to manipulate data (SELECT queries, update and delete data), data storage requirements, and how to administer a database (security, backup, and restore).	To earn this certification, candidates must pass the Microsoft Technology Associate - Database Administration Fundamentals (Exam 98-364).	Microsoft Corporation	www.microsoft.com/learning
292	Microsoft Technology Associate (MTA) - Gaming Development Fundamentals	MICRO079	Microsoft Technology Associate (MTA) – Gaming Development Fundamentals certification provides individuals with the ability to demonstrate their proficiency in core gaming development skills.	A certification in Microsoft Technology Associate (MTA) - Gaming Development Fundamentals requires students to pass exam 98-374. Candidates should have solid foundational knowledge of game design, hardware, graphics, and animation.	Microsoft Corporation	www.microsoft.com/learning
293	Microsoft Technology Associate (MTA) - HTML5 Application Development Fundamentals	MICRO080	Microsoft Technology Associate (MTA) – HTML5 Application Development Fundamentals certification provides individuals with the ability to demonstrate their proficiency in core HTML5 client application development skills that runs on today's touch-enabled devices (PCs, tablets, and phones).	A certification in Microsoft Technology Associate (MTA) - HTML5 Application Development Fundamentals requires students to pass exam 98-375. Candidates should have solid foundational knowledge and able to: Manage the Application Life Cycle, Build the User Interface by Using HTML5, Format the User Interface by Using CSS, Code by Using JavaScript	Microsoft Corporation	www.microsoft.com/learning
294	Microsoft Technology Associate (MTA) - Mobile Development Fundamentals	MICRO081	Microsoft Technology Associate (MTA) - Mobile Development Fundamentals certification provides individuals with the ability to demonstrate their proficiency in mobile development skills.	A certification in Microsoft Technology Associate (MTA) - Mobile Development Fundamentals requires students to pass exam 98-373. Candidates should have solid foundational knowledge and able to: Work with Physical Devices, Use Data with Mobile Devices, Use a Mobile Application Development Environment, Develop Mobile Applications, including Silverlight, HTML5, and other phone operating system tools.	Microsoft Corporation	www.microsoft.com/learning
295	Microsoft Technology Associate (MTA) - Networking Fundamentals	MICRO078	Students who complete this certification have demonstrated an understanding of networking concepts in a Windows Server 2008 environment such as network infrastructures, network hardware, and protocols and services.	To earn this certification, the candidate must pass the Microsoft Technology Associate - Networking Fundamentals (Exam 98-366).	Microsoft Corporation	www.microsoft.com/learning
296	Microsoft Technology Associate (MTA) - Security Fundamentals	MICRO077	Students who complete this certification have demonstrated their understanding of security concepts in a Windows Server 2008 environment such as security layers, operating system security, network security, and security software.	To earn this certification, the candidate must pass the Microsoft Technology Associate - Security Fundamentals (Exam 98-367).	Microsoft Corporation	www.microsoft.com/learning
297	Microsoft Technology Associate (MTA) - Software Development Fundamentals	MICRO074	Students who complete this certification have demonstrated their understanding of core programming concepts, such as computer storage and data types, decision structures, and error handling; object oriented programming, including classes, inheritance, polymorphism, and encapsulation; application life cycle management, application specifications, algorithms and data structures; Web page development (HTML, JavaScript, and CSS), Microsoft ASP.NET Web application development, Web hosting, and Web services; desktop applications, including Windows® Forms applications, console-based applications, and Windows Services; and databases, including RDMS, query methods, and database connection methods.	To earn this certification, candidates must pass the Microsoft Technology Associate - Software Development Fundamentals (Exam 98-361).	Microsoft Corporation	www.microsoft.com/learning
298	Microsoft Technology Associate (MTA) - Software Testing Fundamentals	MICRO101	Microsoft Technology Associate-Software Testing Fundamentals. This certification measures your ability to accomplish the technical components such as functional, performance structural, regression, security, stress, accessibility, usability and localization testing. It will also allow you to create software test; manage software testing projects; work with bugs; automate software testing.	To earn this certification, candidates must pass the Microsoft Technology Associate (MTA) - Software Testing Fundamentals (Exam) 98-379.	Microsoft	www.microsoft.com/learning www.certiport.com/
299	Microsoft Technology Associate (MTA) - Web Development Fundamentals	MICRO072	Students who complete this certification have demonstrated their understanding of Web-based application development and the ability to create ASP.NET applications using server-side and client-side coding techniques and tools, access and display data in a Web application, deploy and host Web applications using Internet Information Server (IIS), program Web Applications, work with Data and Services (XML), and debug Web Applications.	To earn this certification, candidates must pass the Microsoft Technology Associate - Web Development Fundamentals (Exam 98-363).	Microsoft Corporation	www.microsoft.com/learning
300	Microsoft Technology Associate (MTA) - Windows Development Fundamentals	MICRO071	Students who complete this certification have demonstrated their ability to create graphical user interface (GUI) applications using Windows Forms or Windows Presentation Foundation (WPF), program and host Windows Services on a computer, access data from various sources for use in a Windows-based application, and deploy a Windows application to target computers.	To earn this certification, candidates must pass the Microsoft Technology Associate - Windows Development Fundamentals (Exam 98-362).	Microsoft Corporation	www.microsoft.com/learning
301	Microsoft Technology Associate (MTA) - Windows OS Fundamentals	MICRO076	Students who complete this certification have demonstrated proficiency in the Windows operating system configuration, installing/upgrading and maintaining client systems, and managing applications, files and folders, and devices.	To earn this certification, the candidate must pass the Microsoft Technology Associate - Windows OS Fundamentals (Exam 98-349).	Microsoft Corporation	www.microsoft.com/learning
302	Microsoft Technology Associate (MTA) - Windows Server Admin Fundamentals	MICRO075	Students who complete this certification have demonstrated proficiency in server installation, server roles, Active Directory, storage, server performance management, and server maintenance.	To earn this certification, the candidate must pass the Microsoft Technology Associate - Server Administration Fundamentals (Exam 98-365).	Microsoft Corporation	www.microsoft.com/learning

303	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
304	National Professional Certification in Sales	NRETF003	The National Professional Certification in Sales was designed to capture the core sales duties for a broad range of entry-level through first-line supervisory positions across the sales and service industries. It is appropriate for anyone interested in obtaining a job or pursuing a career in retail and other sales-focused industries.	Candidates for this certification must have earned the National Professional Certification in Customer Service first before he/she can become eligible to set for the Sales Certification exam. A participant can earn the sales certification by passing a 75-question, online assessment and be at least 16 years old or, if a student, have attained at least a grade 11 standing, and be in good standing with their employer, school, or training program. The assessment measures and validates knowledge in the following areas: Prepares for Selling, Gains Customer Commitment and Closes the Sale, Develops and Implements Sales and Follow-up Plan.	National Retail Federation Foundation	www.nrfoundation.com
305	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
306	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
307	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
308	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
309	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
310	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
311	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
312	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
313	NCCER Electrical - Level 1	NCCER010	Level One certification: Electrical Safety, Electrical Circuits, Device Boxes, Hand Bending, Electrical Theory, 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
314	NCCER Electrical - Level 2	NCCER038	Level Two certification: Alternating Current, Motors, Grounding and Bonding, Conduit Bending, Conductor Installations, Cable Tray, Conductor Terminations and Splices, Circuit Breakers/ Fuses, Pull and Junction Boxes, Control Systems, 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
315	NCCER Electrical - Level 3	NCCER039	Level Three certification: Load Calculators, Conductor Selection, Practical Applications of Lighting, Transformers, Voice/Data/Video, Commercial Electrical Service, Overcurrent Protection, 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
316	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
317	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
318	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
319	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
320	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

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321		NCCER Glazier - Level 1	NCCER092	Basic Safety, Basic Mathematics, Introduction of the Trade, Types of Glass, Handling Glass, Introduction to blueprint reading, Sealants, Basic Glass Cutting, Mirror and Glass Fabrication, Plastics and Panels.	Intro. to Glazier 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 Glazier - Level 2	NCCER093	Contract Documents, Intro to Safety Glazing, Trade Math, Sealants II, Custom Mirrors, Intro to Insulating Glass, Types of Windows, Glass Fabrication, Aluminum Fabrication, and Shower and Tub Enclosures.	Intro. to Glazier 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		NCCER Glazier - Level 3	NCCER094	Mechanical Fasteners, Work Platforms, Job Measurement, Sketching and Take offs, Sloped Glazing/ Skylights, Curtain Wall, Finishes and Coatings, and Entrances and Hardware.	Intro. to Glazier 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
324		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
325		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. Examinees must pass each module with a 70% or higher.	National Center for Construction Education & Research (NCCER)	www.nccer.org
326		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
327		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
328		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
329		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
330		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
331		NCCER Industrial Maintenance - Mechanic	NCCER084	Level One- Basic Safety, Introduction to Construction Math, Introduction to Power Tools, Basic Rigging, Testing Piping Systems and Equipment, Basic Layout, Field Sketching, Prealignment for Drilling and Tapping, Structural Ironworking: One, Lubrication, Piping Systems, Gaskets and Packing, Maintaining Valves, Identifying and Installing Valves, Steam Traps, Steam Systems, Drawings and Symbols, Oxyfuel Cutting, Pipe Hangers and Support, Fasteners, Boiler Pressure Components, Boiler Nonpressure Components, Boiler Auxiliaries, Towers and Exchangers, Planning Work Activities.	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
332		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
333		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
334		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
335		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
336		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
337		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
338		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
339		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
340		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
341		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

342	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
343	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
344	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
345	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
346	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
347	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 Ripping.	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
348	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
349	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
350	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
351	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
352	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
353	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
354	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
355	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
356	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
357	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
358	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
359	NDT Certificate Liquid Penetrate (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

360	NDT Certificate Liquid Penetrate (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
361	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
362	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
363	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
364	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
365	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
366	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

367	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
368	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
369	NIMS EDM - Plunge	NIFMS003	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
370	NIMS EDM - Wire	NIFMS004	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
371	NIMS Machining Level I - CNC Milling: Programming Setup & Operations	NIFMS001	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. Milling machines can perform a vast number of operations, from simple (e.g., slot and keyway cutting, planning, drilling) to complex (e.g., contouring, diesinking). This certification is part of the NIMS Standard Machining Level I.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
372	NIMS Machining Level I - CNC Turning: Programming Setup & Operations	NIFMS002	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
373	NIMS Machining Level I - Turning Operations: Turning Between Centers	NIFMS008	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
374	NIMS Machining Level I - Turning Operations: Turning Chucking Skills	NIFMS010	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
375	NIMS Machining Level II - Grinding Skills II	NIFMS012	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
376	NIMS Machining Level II - Manual Milling	NIFMS007	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. This certification is part of the NIMS Standard Machining Level II.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org
377	NIMS Manual Turning - Between Centers	NIFMS009	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. This certification is part of the NIMS Standard Machining Level I.	NIMS certifications require both performance and theory exams. The performance will be the manufacturing of a part, the set-up and operation of a machine or the writing of a program that will manufacture a specific part. Examinees must first complete a performance affidavit, and Credentialing Achievement Records (CARs) before they are eligible to take the online theory exam.	National Institute for Metalworking Skills (NIMS)	www.nims-skills.org

378	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.	Board of Certified Safety Professionals (BCSP)	www.bcspp.org
379	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.csga.org
380	Oracle Certified Associate (OCA) - Database	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
381	Oracle Certified Associate (OCA) - Java Programmer	ORACL004	The OCA Java Programmer certification is designed for individuals who possess a strong foundation in the Java Programming language. This certification covers the fundamentals of Java programming, such as the significance of object-oriented programming and the steps to create simple Java technology programs. This certification provides a solid foundation on which to base continued learning.	To achieve this certification, candidates must successfully pass a single exam specific to the Java version. The Java SE5/SE 6 exam (1Z0-850) requires examinees to complete 51 questions in 115 minutes. The Java SE7 exam (1Z0-803) requires examinees to complete 90 questions in 150 minutes. The pass score for the exam is specific to the version of the exam and is set at the time of release.	Oracle Corporation	www.oracle.com
382	Oracle Certified Master (OCM) - Database	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
383	Oracle Certified Master (OCM) - Java Developer	ORACL006	This performance-based certification is 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 and an essay exam. Prior to attempting certification, candidates must be certified as a Sun Certified Programmer (SCP), any edition, or as an OCP: Java Programmer. For upgrade purposes, it is not necessary to be a Sun Certified	Oracle Corporation	www.oracle.com
384	Oracle Certified Professional (OCP) - Database	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
385	Oracle Certified Professional (OCP) - Java Programmer	ORACL005	The OCP Java Programmer certification is designed for individuals who possess a strong foundation in the Java Programming language as well as proven skill in creating Java technology programs. This certification covers core Application Programming interfaces used to design object-oriented applications with Java, as well as insight into Java applications such as those that manipulate files, directories and file systems.	To achieve this certification, candidates must successfully pass a single exam specific to the Java version. The OCP Java SE5 exam (1Z0-853) requires examinees to complete 60 questions in 150 minutes. The OCP Java SE6 exam (1Z0-851) requires examinees to complete 60 questions in 150 minutes. The OCP Java SE7 exam (1Z0-804) requires examinees to complete 120-150 questions in 2.5-3 hours. It is required that examinees have earned the Oracle Certified Associate, Java SE 7 Programmer before sitting for the OCP Java SE7 exam. The pass score for the exam is specific to the version of the exam and is set at the time of release. Candidates who have the Sun Java Programmer certification may upgrade to this certification by passing a single upgrade exam.	Oracle Corporation	www.oracle.com
386	Pharmacy Technician	PTCBD001	Certification of Pharmacy Technicians is to recognize pharmacy technicians who are proficient in the knowledge and skills needed to assist pharmacists to safely, accurately and efficiently prepare and dispense prescriptions and to promote high standards of practice for pharmacy technicians.	Candidates must have a high school diploma or GED; no felony conviction; no drug or pharmacy related convictions, no restriction or admission of misconduct or violation of regulation by any State Board of Pharmacy. The certification requirement consists of 90 multiple-choice questions. Candidates have 110 minutes to complete the exam.	Pharmacy Technician Certification Board	www.ptcb.org
387	Pre-Apprenticeship Certificate Training (PACT), Facilities Maintenance	HBINS002	This certification recognizes the industry's need for a training program that included vocational and academic learning with on-the-job training. HBI's PACT is designed to serve diverse populations seeking a career in the building industry.	To earn the credential, the student must pass the appropriate NOCTI exam per the established criterion-referenced cut scores.	Home Builders Institute	www.hbi.org
388	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
389	Professional Designation in Supply Chain Management	AMSTL004	The Professional Designation in Logistics and Supply Chain Management (PLS) is for professionals seeking an understanding of the key strategies for improving customer service and increasing the efficiency of their logistics and supply chain operations. The purpose of the PLS is to recognize individuals that have completed a course of study examining the strategies for improving logistics and supply chain operations and are seeking to apply this knowledge within their profession.	The examination consists of multiple choice questions selected from material contained in the following textbook as well as selected outside readings.	American Society of Transportation & Logistics	www.astl.org

390	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, and Part 4: Legal Knowledge and Skills.	National Association of Legal Secretaries Resource Center	www.nals.org
391	Protective Coatings Certification	SOCP001	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
392	Quality Engineer - CQE	AMSFQ005	The Certified Quality Engineer is a professional who understands the principles of product and service quality evaluation and control. This body of knowledge and applied technologies include, but are not limited to, development and operation of quality control systems, application and analysis of testing and inspection procedures, the ability to use metrology and statistical methods to diagnose and correct improper quality control practices, an understanding of human factors and motivation, facility with quality cost concepts and techniques, and the knowledge and ability to develop and administer management information systems and to audit quality systems for deficiency identification and correction.	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
393	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
394	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
395	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
396	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
397	QuickBooks Certified User	INTUT001	The QuickBooks Certified User Program is designed for people who use QuickBooks in their day-to-day job. This includes bookkeepers, office managers and owners. The program is intended to broaden, deepen and verify your knowledge of QuickBooks Financial Software (Pro, Premier, and Enterprise editions) through training and testing.	The QuickBooks Certified User program certification requirements include: Completing a 2-day Mastering QuickBooks live class offered by Real World Training. Passing the exam which is 50 multiple choice questions, on-line Certification Exam. To pass the exam you must receive a score of 80% or higher. If you receive a score lower than 70%, you can retake the test with the same link in the email two more times before you need to purchase another test.	Intuit	www.realworldtraining.com
398	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
399	RECF Pre-Engineering Certification	RECFN001	The REC Foundation Pre-Engineering certification is designed to introduce students to the exciting world of engineering or engineering technology-related fields. The attainment of this certification will identify students who possess the knowledge and experience needed for today's engineering workforce.	Students are expected to have at least 150 hours of pre-engineering classroom learning experience before taking the exam for this certification. Students must take the Fundamentals of Engineering plus a minimum of any two out of the eight engineering modules in order to receive the RECF Pre-Engineering Certification. The eight engineering modules are Mechanical, Computer Science and Engineering (Programming), Electrical, Chemical, Aerospace, Civil, Engineering Technology and Manufacturing Technology. They must average a score of 80% across all the modules and any modules with a score less than 70% must be retaken. There is no limit to how many modules a student may take for area emphasis beyond the two required.	Robotics Education and Competition Foundation	www.roboticseducation.org
400	RECF Robotics Certification	RECFN002	The REC Foundation Robotics certification is designed to introduce students to the technology field that deals with the design, construction, operation, development and application of robots and computer systems for their control, sensory feedback, and information processing. The attainment of this certification will identify students who possess the knowledge and experience needed for today's robotics workforce.	Students are expected to have at least 150 hours of robotics classroom learning experience before taking the exam for this certification. Students must take the Fundamentals of Engineering plus three engineering modules in order to receive the RECF Robotics Certification. The three required engineering modules are Mechanical, Computer Science and Engineering (Programming) and Electrical. They must average a score of 80% across all the modules and any modules with a score less than 70% must be retaken.	Robotics Education and Competition Foundation	www.roboticseducation.org

401	Registered Abdominal and Vascular Specialist (RAVS)	NCMDA001	A Registered Abdominal and Vascular Specialist (RAVS) certification is designed to assist physicians in the diagnosis of disorders affecting the cardiovascular and abdominal structure. RAVS are trained to evaluate pulses and assess blood flow in arteries and veins by listening to the vascular flow sounds for abnormalities, ensure the appropriate vascular test has been ordered, and to perform a noninvasive procedure using ultrasound instruments to record vascular information such as vascular blood flow, blood pressure, cerebral circulation, peripheral circulation, and abdominal circulation.	Candidates for the RAVS Certification will be evaluated in a two part exam: theory knowledge and clinical skills. Students taking the theory part of the exam must score an average of 76% or better. The clinical portion of the exam is either a pass or fail. Candidates must pass both sections of the exam before certification will be issued. Candidates must also complete full training in CPR/BLS, AED, First Aid- Adult/ Infant either through American Red Cross or American Heart Association. Cards must be provided. In addition, a minimum of two or more years of work experience in the allied health field for which he/she is applying is required. RAVS must be able to distinguish sonographic appearances, measurements, instrumentations, basic cardiac interpretations, EKG's peripheral venous/arterial studies. RAVS should be able to identify abdominal aortic aneurysm, aortic enlargement, branches that supply the interior extremities and upper extremities.	National Certification Medical Association	www.ncmanow.org
402	Registered Cardiac Sonographer (RCS)	CCINT002	Registered Cardiac Sonographers (RCS) specialize in echocardiography. The one part exam for this certification covers: Patient Management and Clinical Medicine, Ultrasound Physics and Instrumentation, Pathophysiology of Cardiovascular Disease/Therapeutic Measures, Two-Dimensional and M-mode Echocardiography, Cardiac Doppler and Color Flow Echocardiography, Advanced Techniques in Echocardiography and other Non-invasive Modalities.	A graduate of a NONCAAHEP accredited Non-Invasive Echocardiography educational program which has a minimum of one (1) year of specialty training and includes a minimum of 800 clinical hours in the echocardiography laboratory.	Cardiovascular Credentialing International	www.cci-online.org
403	Registered Clinical Massage Therapist (RCMT)	NCMDA002	A Registered Clinical Massage Therapist (RCMT) certification offers a well-trained perceptive professional in the science of healing through direct contact by way of hands, therapeutic skills, and techniques.	Candidates for the RCMT Certification will be evaluated in a two part exam: theory knowledge and clinical skills. Students taking the theory part of the exam must score an average of 76% or better. The clinical portion of the exam is either a pass or fail. Candidates must pass both sections of the exam before certification is issued. Candidates must also complete full training in CPR/BLS, AED, First Aid- Adult/ Infant either through American Red Cross or American Heart Association. Cards must be provided. RCMT must be proficient in anatomy "muscular system", physiology, neurology, lymphatic drainage, skeletal system, kinesiology, vital signs, BLS, ethics, and laws. Note: The RCMT Certification is note a licensure. For licensing requirements students must check with Florida's licensing board or agency to find out about licensing requirements.	National Certification Medical Association	www.ncmanow.org
404	Registered Clinical Medical Assistant Specialist (RCMAS)	NCMDA003	A Registered Clinical Medical Assistant Specialist (RCMA) certification is designed to provide assistance in the medical office, clinic and hospital settings. The RCMA is trained to perform administrative and/or clinical tasks to support the work of physicians and other health professional.	Candidates for the RCMA Certification will be evaluated in a two part exam: theory knowledge and clinical skills. Students taking the theory part of the exam must score an average of 76% or better. The clinical portion of the exam is either a pass or fail. Candidates must pass both sections of the exam before certification is issued. Candidates must also complete full training in CPR/BLS, AED, First Aid- Adult/ Infant either through American Red Cross or American Heart Association. Cards must be provided. RCMA should master the following task; 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.	National Certification Medical Association	www.ncmanow.org
405	Registered Diagnostic Cardiac Sonographer (RDSCS)	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 RDSCS credential offers a Physics Examination: Sonography Principles and Instrumentation and three specialty area examinations: Adult Echocardiography, Fetal Echocardiography, and Pediatric Echocardiography.	To be eligible for a RDSCS credential applicants must meet specific educational and professional experience requirements before an applicant can take an ARDMS examination. ARDMS currently offers ten (10) prerequisites under which to apply for an ARDMS examination. First-time applicants must select a prerequisite under which they want to apply for an ARDMS specialty examination and/or the Sonography Principles & Instrumentation (SPI) examination. 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. All three components of the prerequisite must be met before an application can be approved.	American Registry of Diagnostic Medical Sonographers (ARDMS)	www.ardms.org
406	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 Examination: Sonography Principles and Instrumentation and five specialty examinations: Abdomen, Breast, Fetal Echocardiography, Neurosonology, and Obstetrics and Gynecology.	To be eligible for a RDMS credential applicants must meet specific educational and professional experience requirements before an applicant can take an ARDMS examination. ARDMS currently offers ten (10) prerequisites under which to apply for an ARDMS examination. First-time applicants must select a prerequisite under which they want to apply for an ARDMS specialty examination and/or the Sonography Principles & Instrumentation (SPI) examination. 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. All three components of the prerequisite must be met before an application can be approved.	American Registry of Diagnostic Medical Sonographers (ARDMS)	www.ardms.org
407	Registered Electrocardiography Specialist (RES)	NCMDA004	A Registered EKG Specialist (RES) certification is designed to provide students with skills necessary for entry-level employment as a health-care professional. It teaches students how to conduct tests of the cardiovascular system in order to identify electrical conduction rhythm, concerning the pumping and circulation of blood by the heart and blood vessels.	Candidates for the RES Certification will be evaluated in a two part exam: theory knowledge and clinical skills. Students taking the theory part of the exam must score a average of 76% or better. The clinical portion of the exam is either a pass or fail. Candidates must pass both sections of the exam before certification is issued. RES should master the following task; perform an EKG/ECG with a patient in different positions, know the basic concepts of many different ECG machines & instrumentation, know basic cardiac interpretation, know how to identify basic abnormal rhythms, basic Cardiac Pharmacology, defibrillation and CPR.	National Certification Medical Association	www.ncmanow.org

408	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.	American Health Information Management Association	www.ahima.org
409	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. Or the applicant must have been employed in the profession of Medical Assisting for a minimum of five (5) years. Or the applicant has passed a generalist medical assistant certification examination offered by another medical assisting certification body (provided that exam has been approved for this purpose by the AMT Board of Directors) and who have been working in the medical assisting field for the past three out of five years and who have met all other AMT training and experience requirements (no further examination required).	American Medical Technologists (AMT)	www.americanmedtech.org
410	Registered Phlebotomy Technician (RPT)	AMEDT005	A Phlebotomy Technician (Phlebotomist) is an integral member of the medical laboratory team whose primary function is the collection of blood samples from patients by venipuncture or microtechniques. The Phlebotomy Technician facilitates the collection and transportation of laboratory specimens, and is often the patient's only contact with the medical laboratory. The need to assure quality and patient safety mandates strict professional behavior and standards of practice for Phlebotomists.	Successfully completed an acceptable phlebotomy training program which includes at least 120 hours of didactic instruction and 120 hours of clinical practicum. Completed at least 1,040 hours of acceptable work experience as a phlebotomy technician within the past three (3) years; this to include venipunctures, skin punctures, specimen processing, communication skills, and clerical duties. The AMT Board of Directors has further determined that applicants who have passed a phlebotomist examination which has been for the purpose of state licensure shall be eligible for RPT (AMT) certification.	American Medical Technologists (AMT)	www.americanmedtech.org
411	Registered Surgical Technologist (RST)	NCMDA005	The Registered Surgical Technologist (RST) certification is designed to provide students with the high level of knowledge needed to assist the surgeon during surgical procedures by familiarizing him/herself with the operation being performed, the preparation and facilitation of the surgery in a timely manner.	Candidates for the RST Certification will be evaluated in a two part exam: theory knowledge and clinical skills. Students taking the theory part of the exam must score an 76% or better. The clinical portion of the exam is either a pass or fail. Candidates must pass both sections of the exam before certification is issued. As part of the competencies the RST must be familiar the operating room, wide knowledge of creating a sterile field and preventing transmission of diseases, ensuring patient's safety in the operating room, knowledge in preventing and minimizing occupational hazard for him or herself and the other members of the multi-disciplinary team, basic knowledge and understanding of the surgical instruments, basic understanding of the human body anatomy, including, but not limited to tissues and organs, wide knowledge and understanding of hand decontamination and preparation in order to minimize surgical infections as well as maintaining the sterile field.	National Certification Medical Association	www.ncmanow.org
412	Registered Technologist - Quality Management (RT)	AMRR005	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, interventional procedures, and radiation therapy professionals.	Candidates pursuing primary pathway certification in Radiography, Nuclear Medicine Technology, Radiation Therapy, Magnetic Resonance Imaging, or Sonography must have — within the past five years — successfully completed an educational program that is accredited by a mechanism acceptable to the ARRT. Beginning on January 1, 2015, all candidates for primary pathway certification must have earned an academic degree before becoming certified. As part of their education, candidates must also demonstrate competency in didactic coursework and an ARRT-specified list of clinical procedures by completing competency requirements established for the discipline in which they are seeking certification.	American Registry of Radiologic Technologists	www.artt.org
413	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
414	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

415	S.P.A.C.E. Geospatial Certification	ENGES001	The SPACE Certification is based on assessing an individual's user-level geospatial foundation. Geospatial technology is spread throughout many industries and high-growth job categories - becoming an essential skill set in many industries. The SPACE certification is a means to qualify student proficiency in geospatial skills and application of those skills to a particular career path.	The S.P.A.C.E. Geospatial Certification exam requires candidates to complete a practical evaluation of map layouts using course software, and an assessment based on GIS concepts and tools, as well as career cluster specific questions. Candidates should have knowledge of GIS/RS concepts, introduction to GIS tools and processes, extended tools in surface analysis, and career focus specific GIS knowledge. The eight career focus pathways that candidates may specialize in are: Agriculture, food, and natural resources Green and Sustainability Health Science Homeland Security Law and Public Safety Marketing STEM Transportation and Logistics	Enterprise for Innovative Geospatial Solutions	www.digitalquest.com/certification.html
416	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).	Board of Certified Safety Professionals (BCSP)	www.bcsp.org
417	Siemens (Level 1) 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
418	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
419	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
420	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 be employed in a sales position or owner/operator of a company with sales responsibilities; pass an online sales certification and marketing exam to demonstrate knowledge and understanding of core competencies in the following areas: Foundation Skill, Planning, Executing and Ethics.	Sales & Marketing Executives International, Inc.	www.smei.org
421	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.	Must have eight years of on-the-job experience in one or more of the areas of the Certified Software Quality Engineer Body of Knowledge. A minimum of three years of this experience must be in a decision-making position. If an individual has completed a degree from a college, university or technical school with accreditation accepted by ASQ, part of the eight-year experience requirement will be waived, as follows (only one of these waivers may be claimed): Diploma from a technical or trade school—one year will be waived, Associate degree—two years waived, Bachelor's degree—four years waived, and Master's or doctorate- five years waived.	American Society for Quality (ASQ)	www.asq.org
422	Support Center Manager	HLPDI006	This certification verifies that the support center manager possesses the knowledge of best and common practices necessary to successfully manage the operational and tactical components of a support organization while strategically aligning with the needs of the business.	The three-day exam consists of 65 multiple choice questions and must be completed in 75 minutes. A minimum score of 80% is required to pass a certification exam, unless otherwise published.	Help Desk Institute (HDI)	www.thinkhdi.com
423	Systems Security Certified Practitioner (SSCP)	IISCC002	The System Security Certified Practitioner (SSCP) is for those working towards positions such as Network Security Engineers, Security Systems Analysts, or Security Administrators. The SSCP consists of the following seven domains: Access Controls, Security Operations and Administration, Monitoring and Analysis, Risk, Response and Recovery, Cryptography, Networks and Communications, and Malicious Code and Activity.	The SSCP certification is open to all candidates with as little as one year experience. Passing score of 700 points or greater.	International Information Systems Security Certification Consortium, Inc.	www.isc2.org

424	Toon Boom Certified Associate (Animate Pro)	TBOOM002	This certification is a credential that validates entry-level skills required for the production of animation. Animate Pro is a tool that enables users to draw, animate a sequence of frames, and create camera moves. The software includes the ability to create rigged characters, that can be animated by moving individual body parts. A variety of media formats can be imported into and exported out of the software, such as images and movie files. As a vector-based software, projects can be exported at any size, making it easy to format a project for the web, mobile devices or for movie screens all from one project.	The certification consists of a 25-question multiple choice exam, covering the core competencies of the software including Drawing Tools, Colour, Frame by Frame Animation, Character Rigging, Cut-Out Character Animation, Camera Moves, Working in a 3D Space, Basic Effects, and Export Options. A 80% grade is required to pass.	Toon Boom Animation	www.toonboom.com/education/certification
425	Toon Boom Certified Associate (Harmony)	TBOOM001	This certification is a credential that validates entry-level skills for the production of high-quality animation. Harmony is the industry-standard tool for drawing, animating, working in a 3D space, creating camera moves, and doing special effects. This software has an advanced system for character rigging, with tools to create characters with body parts on separate layers. New technology enables drawings that can bend and twist and features like advanced textures. The advanced special effects system, with particle engine, allows users to create industry-quality special effects all in the same software. A variety of formats are supported for import and export, including images and movie files. As a vector-based software, projects can be exported at any size, making it easy to format a project for the web, mobile devices or for movie screens all from one project.	The certification consists of a 25-question multiple choice exam, covering the core competencies of the software including Drawing Tools, Colour, Frame by Frame Animation, Character Rigging, Cut-Out Character Animation, Camera Moves, 3D Model Import, Working in a 3D Space, Special Effects, Particles, and Export Options. A 80% grade is required to pass.	Toon Boom Animation	www.toonboom.com/education/certification
426	Toon Boom Certified Associate (Storyboard Pro)	TBOOM003	This certification is a credential that validates entry-level skills needed to plan, lay out, and time productions. Storyboard Pro can be used to plan live action video shoots, animated productions, films, games, presentations, events, and more. It enables users to draw, plan sequences of panels, import media from a wide range of sources, and time projects out. Projects can then be exported in a wide array of industry standard formats.	The certification consists of a 25-question multiple choice exam, covering the core competencies of the software including the Storyboarding Process, Animatic Creation, Drawing Tools, Camera Moves, Importing Media, and Export Options. A 80% grade is required to pass.	Toon Boom Animation	www.toonboom.com/education/certification
427	Truss Technician Training Levels 1, 2, 3 (bundled)	STBCA001	TTT Level I is an introduction for wood truss design technicians, estimators, and salespeople to acquire the design and engineering fundamentals of metal plate connected trusses. Students will be expected to perform calculations, solve problems, review presentations, and respond to interactive quiz questions interspersed throughout the sections. Level II covers advanced concepts for math and load development for live, dead, snow, rain and wind loads. Students review truss industry referenced standards like ANSI/TPI 1, ASCE-7 Design Loads for Buildings and Other Structures, and the National Design Specification (NDS) for Wood Construction. Students perform calculations, solve problems, review presentations, and respond to interactive quiz questions interspersed throughout the sections. TTT Level III provides discussion and background of current technical issues. Each presentation is developed by a different industry professional and examines specific technical design considerations. Participants will elevate their understanding of this highly specialized industry and receive answers to unresolved technical questions. Topics cover fundamental/theoretical design considerations and then how to apply these in the real world, the business risk associated with designing trusses, serviceability issues, understanding and applying the building code to expand your business, and finally some industry issues we face and how to best tackle these in the marketplace.	You become TTT Certified by taking the TTT Certification Exam and scoring at least a 65% grade. There is a TTT Certification Exam for each of the three levels of TTT training. To be eligible for the TTT Level 1 Exam requires completion of a Level 1 Class. To be eligible for the TTT Level 2 exam requires completion of a Level 2 class and Level 1 certification. To be eligible for the TTT Level 3 exam requires completion of a Level 3 class and Level 1 and 2 certification.	Structural Building Components Association	www.sbcindustry.com
428	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; 100 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	FL Dept. of Environmental Protection	www.dep.state.fl.us/water/wff/ocp/
429	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; 100 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	FL Dept. of Environmental Protection	www.dep.state.fl.us/water/wff/ocp/
430	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; 100 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	FL Dept. of Environmental Protection	www.dep.state.fl.us/water/wff/ocp/

431		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 two hours for class D; 50 questions. All exams are composed of multiple choice questions and the minimum passing score is 70%.	FL Dept. of Environmental Protection	www.dep.state.fl.us/water/wff/ocp/
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