

2020

New Industry Credentials

Arizona CTE Quality Commission members,

There are fifteen new Industry credentials for your consideration.

The following Fact Sheets are for your approval of new Industry Credentials submitted to the Career and Technical Education unit of ADE. If approved by the CTE Quality Commission, these credentials will go before the State Board of Education to be approved and adopted for the College and Career Ready Index for A-F school letter grades and the AZ Industry Credential Incentive Funding Initiative.



AWS Certificed Cloud Practitioner Fact Sheet

Certifying Organization	Amazon	Web Servic	es			Amazon Web Services							
Name of Specific Credential	AWS Cer	AWS Certified Cloud Practitioner											
Description of Credentials	understar recognize technolog	The AWS Cloud Practitioner exam enables individuals with an overall understanding of the AWS Cloud to validate their knowledge with an industry- recognized credential. It provides individuals in a larger variety of cloud and technology roles with a way to validate their AWS Cloud knowledge and enhance their professional credibility.											
Entry-Level Annual Salaries	\$35,000-	\$55,000											
CTE Program Alignment			.1200.30, Sc on 10.0200.4		and A	pp Design 15.	1200	.40,					
	Indus	try-Based C	ertification R	equiren	nents:	Students							
Standard / Curriculum	(k12cs.or	g) for grade Board Big Ic	es 9-12 and (created	l with a	puter Science alignment to IS Currciculm and	STE s	tandards and					
Testing Methodology (consists of two tests)	Paper?	No	Online – Cognitive portion	Yes		Performance Exams / Tests Psychomoto portion		No					
Re-Testing (if available)	Re-Testin Procedur	g foo of ¢	test for addi 100	tional	Max Atter Allov	npts	5						
Testing Details (including any age requirements / accommodations)	consent of consent. eligible to Special a registerin English a keyboard	of their pare Test takers o retake the accommoda of for an ex- is a Second I, noise-can	ent or legal g who do not exam. There tions will be am. Accomm I Language (uardian pass ar e is no arrange nodatior ESL) + phones	n. Ages n exar limit to ed with ns may 30; ec); facil	s 18+ do not n n must wait 14 o the number o n the test deliv y include but a quipment (spec	eed a days of test ery p are no cialize	s before they are attempts. rovider, prior to ot limited to:					
	Indus	try-Based C	ertification R	equiren	nents:	Teachers							
Instructor Certification Requirements (by certifying agency)	None required but AWS Cloud Practitioner Certification is highly recommended.												
Proctoring / Test Security (if any)	Exam must be taken at an approved testing site or completed via online proctoring.												
			Certification	Trackin	g								
Credentialing Documentation	Through	AWS Certif	ication on Ad	cclaim.c	com								



AWS Certificed Cloud Practitioner Fact Sheet

Certification Tracking System	Online Tracking System?	Yes	Details	Credly/Acclaim.com				
Other Details	Expiration Timeline?	Certifications a	Certifications are valid for 3 years					
Certification Costs / Funding Sources								
Cost Details	Cost Details \$100 for the exam							
Re-test / Refund Policies	before a sche hour window reschedule y forfeit the exa register again the exam doe after schedul you must car to the new ag	eduled appointm before your sch our exam. If you am fee and are n n for the exam un es not result in a ling your original neel and schedul	ent withou eduled ap miss you not eligible ntil 24 hou "fail" statu appointm le a new a m appoint	ncel or reschedule exam up to 24 hours ut additional fees. Once you reach the 24- pointment, you will not be able to cancel or r scheduled exam appointment, you will e for a refund. You will not be able to urs after your missed exam time. Missing us. You may only reschedule two times nent. If you wish to reschedule a third time, appointment. The reschedule limit will apply ments cannot be cancelled less than 24				
		For More	e Informati	on				
Certifying Agency Contact Info	AWS Certification; 440 Terry Ave. Seattle, WA 98109; https://support.aws.amazon.com/#/contacts/aws-training							



Career Connections Level 1 - Certification of Completion Fact Sheet

Certifying Organization	Southwes	Southwest Regional Council of Carpenters						
Name of Specific Credential	Career C	Career Connections Level 1 Certification of Completion						
Description of Credentials	construct	Career Connections Level 1 Certification presents the use of measuring tools, construction math, and various individual work-based projects offering entry level life skills, safety information and precautions, descriptions of tools, safe operating procedures, and descriptions of materials and fasteners.						
Entry-Level Annual Salaries	\$45,150	rearly						
CTE Program Alignment	Carpentry 46.0400.2		30, Cabine	tmaking	46.040	0.40, Construc	ction ⁻	Technologies
	Indus	try-Based (Certification	n Require	ements:	Students		
Standard / Curriculum	of Carper	nters, Carp	enters Inte	ernationa	l Traini		rf) F	ted Brotherhood ederal and State I Canada.
Testing Methodology (consists of two tests)	Paper?	Yes	Online - Cognitiv portion	Performance			Yes	
Re-Testing (if available)	Re-Testin Procedure	g Sahaa	ual School District di	-	Max Atter Allov	npts	5	
Testing Details (including any age requirements / accommodations)	left to the based on age limit through th	career con weighted required. R	nnections of grades, an desources connection	curricului d project for creati s exam \	m users t evalua ing quiz view tes	s' discretion. C ation grading r z's, tests or ex st bank or emb	ertific ubrics ams,	s. There is no
	Indust	try-Based C	ertification	n Require	ments:	Teachers		
Instructor Certification Requirements (by certifying agency)		t instructor source train		nd Caree	r Conn	ections curricu	ilum c	prientation, and a
Proctoring / Test Security (if any)	None							
			Certificati	on Tracki	ng			
Credentialing Documentation	number for for trackir	or the com	pleter. This	s identific	cation n		ured i	ntification in our database ers across the
Certification Tracking System	Online Tracking System?	Yes		Details		tification can b , school or ID		cked by student er.



Career Connections Level 1 - Certification of Completion Fact Sheet

Other Details	Expiration Timeline?						
	Certification Costs / Funding Sources						
Cost Details	No Cost	No Cost					
Re-test / Refund Policies	There are no costs associated with test or retest.						
		For More Information					
Certifying Agency Contact Info	 Michael LaBruno (858) 880-8683 mlabruno@swcarpenters.org Southwest Regional Council of Carpenters Career Connections Outreach Specialist 						



Career Connections Level 2 Certification of Completion Fact Sheet

Certifying Organization	Southwes	Southwest Regional Council of Carpenters						
Name of Specific Credential	Career C	Career Connections Level 2 Certification of Completion						
Description of Credentials	and prese level trade	Career Connections Level 2 Certification program reviews safety, tools, materials, and presents teamwork building with various work-based projects offering mid- level trade skills to the beginning advanced trade skills needed to move toward level 3 commercial or residential construction certifications.						
Entry-Level Annual Salaries	\$45,150	Yearly						
CTE Program Alignment	Carpentry 46.0400.2		30, Cabine	etmaking	46.040	0.40, Construc	ction	Technologies
	Indus	try-Based	Certificatio	n Require	ements:	Students		
Standard / Curriculum	of Carper	nters, Carp	enters Inte	ernationa	l Traini		rf) F	ted Brotherhood ederal and State I Canada.
Testing Methodology (consists of two tests)	Paper?	Yes	Online - Cognitiv portion	Performance			Yes	
Re-Testing (if available)	Re-Testin Procedure	g Schoo	lual Schoo I District di	-	Max Atter Allov	npts	5	
Testing Details (including any age requirements / accommodations)	left to the based on age limit through tl	career co weighted required. F he career	nnections grades, ar Resources	curricului nd project for creati s exam v	m users t evalua ing quiz view tes	s' discretion. C ation grading r z's, tests or ex st bank or emb	ertific ubrics ams,	s. There is no
	Indust	try-Based (Certificatio	n Require	ments:	Teachers		
Instructor Certification Requirements (by certifying agency)		t instructo source trai		nd Caree	r Conn	ections curricu	llum c	prientation, and a
Proctoring / Test Security (if any)	None							
			Certificati	on Tracki	ng			
Credentialing Documentation	number for for trackir	or the com	pleter. This	s identific	cation n	adds a uniqu number is capti of our training	ured i	n our database
Certification Tracking System	Online Tracking System?	Yes		Details		tification can b , school or ID		cked by student er.



Career Connections Level 2 Certification of Completion Fact Sheet

Other Details	Expiration Timeline? Career Connections Certifications never expire.						
	Certification Costs / Funding Sources						
Cost Details	No Cost	No Cost					
Re-test / Refund Policies	There are no costs associated with test or retest.						
		For More Information					
Certifying Agency Contact Info	Michael LaBruno (858) 880-8683 mlabruno@swcarpenters.org Southwest Regional Council of Carpenters Career Connections Outreach Specialist						



Career Connections Level 3 Commercial Construction Certification of Completion Fact Sheet

Certifying Organization	Southwest Regional Council of Carpenters							
Name of Specific Credential	Career C	Career Connections Level 3 Commercial Construction Certification of Completion						
Description of Credentials	interpreta framing, o doors, wi	Career Connections Level 3 Certification Residential Construction presents print interpretation, layout, form and foundation, sub floor framing, wall framing, roof framing, exterior sheathing, moisture barriers, drywall, drywall finish, residential doors, windows and hardware, floor laying, and exterior lathing. This certification recognizes advanced residential construction skills.						
Entry-Level Annual Salaries	\$45,150	Yearly						
CTE Program Alignment	Carpentry 46.0400.2		0, Cabinetm	aking 4	6.040	0.40, Construc	ction ⁻	Technologies
	Indus	try-Based C	ertification R	equirer	nents:	Students		
Standard / Curriculum	of Carper	The Career Connections curriculum comes directly out of the United Brotherhood of Carpenters, Carpenters International Training Fund's (CITF) Federal and State registered apprenticeship programs across the United States and Canada. The curriculum aligns with residential, commercial and industrial construction.						
Testing Methodology (consists of two tests)	Paper?	Yes	Online – Cognitive portion	Yes		Performance Exams / Tests Psychomoto portion		Yes
Re-Testing (if available)	Re-Testin Procedur	es: School	ual School or District disc	retion.	Max Atter Allov	mpts wed:	5	
Testing Details (including any age requirements / accommodations)	left to the based on age limit through t	e career con weighted g required. R he career c	nections cur grades, and p esources for	riculum project creatin exam vi	n users evalua ng quiz ew tes	s' discretion. C ation grading ru z's, tests or exa st bank or emb	ertific ubrics ams,	s. There is no
	Indus	try-Based C	ertification R	equiren	nents:	Teachers		
Instructor Certification Requirements (by certifying agency)		st instructors source train		Career	Conn	ections curricu	llum c	prientation, and a
Proctoring / Test Security (if any)	None							
			Certification	Trackin	g			
Credentialing Documentation	number f for tracki	or the comp	pleter. This ic pleter that a	dentifica	ation r		ured i	ntification in our database ers across the



Career Connections Level 3 Commercial Construction Certification of Completion Fact Sheet

Certification Tracking System	Online Tracking System?	Yes	Details	A Certification can be tracked by student name, school or ID number.				
Other Details	Expiration Timeline?	Career Connec	Career Connections Certifications never expire.					
Certification Costs / Funding Sources								
Cost Details	No Cost							
Re-test / Refund Policies	There are no	costs associate	d with tes	t or retest.				
		For More	Informati	on				
Certifying Agency Contact Info	(858) 880-86 mlabruno@s Southwest R	Michael LaBruno (858) 880-8683 mlabruno@swcarpenters.org Southwest Regional Council of Carpenters Career Connections Outreach Specialist						



Career Connections Level 3 Residential Construction Certification of Completion Fact Sheet

Certifying Organization	Southwest Regional Council of Carpenters							
Name of Specific Credential	Career C	Career Connections Level 3 Residential Construction Certification of Completion						
Description of Credentials	interpreta framing, o doors, wi	Career Connections Level 3 Certification Residential Construction presents print interpretation, layout, form and foundation, sub floor framing, wall framing, roof framing, exterior sheathing, moisture barriers, drywall, drywall finish, residential doors, windows and hardware, floor laying, and exterior lathing. This certification recognizes advanced residential construction skills.						
Entry-Level Annual Salaries	\$45,150	Yearly						
CTE Program Alignment	Carpentry 46.0400.2		30, Cabinetm	aking 4	6.040	0.40, Construc	ction	Technologies
	Indus	try-Based C	Certification R	equiren	nents:	Students		
Standard / Curriculum	of Carpe	The Career Connections curriculum comes directly out of the United Brotherhood of Carpenters, Carpenters International Training Fund's (CITF) Federal and State registered apprenticeship programs across the United States and Canada.						
Testing Methodology (consists of two tests)	Paper?	Yes	Online – Cognitive portion	Yes		Performance Exams / Tests Psychomoto portion		Yes
Re-Testing (if available)	Re-Testin Procedur	Sobool	ual School or District disci		Max Atter Allov	npts	5	
Testing Details (including any age requirements / accommodations)	left to the based on age limit through t	e career cor weighted required. R he career c	nnections cur grades, and p lesources for	riculum project e creatin exam vie	users evalua g quiz ew tes	s' discretion. C ation grading r z's, tests or exa st bank or emb	ertific ubrics ams,	s. There is no
	Indus	try-Based C	ertification R	equirem	nents:	Teachers		
Instructor Certification Requirements (by certifying agency)		st instructor source trair		Career	Conn	ections curricu	llum d	prientation, and a
Proctoring / Test Security (if any)	None							
			Certification	Tracking	g			
Credentialing Documentation	number f for tracki	or the com	pleter. This ic pleter that a	dentifica	tion n		ured	ntification in our database ers across the



Career Connections Level 3 Residential Construction Certification of Completion Fact Sheet

Certification Tracking System	Online Tracking System?	Yes	Details	A Certification can be tracked by student name, school or ID number.				
Other Details	Expiration Timeline?	Career Connec	Career Connections Certifications never expire.					
Certification Costs / Funding Sources								
Cost Details	No Cost	No Cost						
Re-test / Refund Policies	There are no	costs associate	d with tes	t or retest.				
		For More	Informati	on				
Certifying Agency Contact Info	(858) 880-86 mlabruno@s Southwest R	Michael LaBruno (858) 880-8683 mlabruno@swcarpenters.org Southwest Regional Council of Carpenters Career Connections Outreach Specialist						



Certified Crime Scene Management Fact Sheet

Certified Crime Scene Management

Certifying Organization	Internatio Prepared	nal Founda	ation for Prote	ection (Officer	s / Institute for	Secu	urity
Name of Specific Credential	Certified	Certified Crime Scene Management						
Description of Credentials	The Crime Scene Management certification is critical to learning, understanding, and protecting all types of crime scenes. The initial first responder is key to identifying critical aspects of the scene. Actional taken early by security, loss prevention, assets protection, insurance companies, correctional officers, and military, plays a critical role in the outcome of any investigation prior to the scene being turned over to law enforcement. It is a misnomer that crime scene management starts and stops with the police. Certain crimes are not investigated by the police which requires private companies to evaluate and investigate. The Crime Scene Management candidate will gain mastery level knowledge, skills, and abilities for a proper response, scene security photography, diagrams, physical evidence collection, crime scene processing, impression evidence, bloodstain patterns, interviewing, and report writing. These principles can be applied by all first responders.							
Entry-Level Annual Salaries	\$26,950 -	\$37,500						
CTE Program Alignment	Law and	Public Safe	ety					
	Industry-Based Certification Requirements: Students							
Standard / Curriculum	Curriculum is provided upon request along with manuals, lesson plans, and blueprints online. The curriculum has been cross-walked with Arizona LPSS standards and prepares students for the SkillsUSA events.							
Testing Methodology (consists of two tests)	Paper?	No	Online – Cognitive portion	Yes		Performance Exams / Tests Psychomoto portion		Yes
Re-Testing (if available)	Re-Testin Procedur	9 motoria	5 days (study al available)	/	Max Atter Allov	npts	1	
Testing Details (including any age requirements / accommodations) Testing Details (including any age requirements / accommodations)								
	Indus	try-Based C	ertification R	equiren	nents:	Teachers		
Instructor Certification Requirements (by certifying agency)	curriculur instructor instructor	m. Based or s if they me training/ce	n this, we do eet the ADE rtification at	not rec require the Ariz	quire a ments zona C	nal LPSS stan additional certif as an instruct CTE Summer (ake the assess	icatic or. V Confe	ons for the Ve have offered prences in



Certified Crime Scene Management Fact Sheet

	district or individual request the credential, we provide them the same material and allow them to test within our assessment site. In 2021, IFPO/ISP will be offering the Crime Scene Management certification around the state to Arizona instructors.						
Proctoring / Test Security (if any)	We use a onl	ine assessment	through F	Proctorio.			
		Certificat	ion Tracki	ng			
Credentialing Documentation		ite for Security P cation, and the d		ess website, each certified individuals are listed.			
Certification Tracking System	Online Tracking System?	Yes Details Online database					
Other Details	Expiration Timeline?	Three years					
	C	ertification Costs	/ Funding	Sources			
Cost Details	\$130 per cert card)	tification for the 2	2020-202	1 school year. (Purchase order or credit			
Re-test / Refund Policies	······································						
		For More	Informati	on			
Certifying Agency Contact Info		6th Avenue, Nort Maria Avenue, (



Certified Protection Officer Fact Sheet

Certifying Organization		International Foundation for Protection Officers / Institute for Security Preparedness						
Name of Specific Credential	Certified	Certified Protection Officer						
Description of Credentials	professio and asse credentia standards knowledg emergen	The Certified Protection Officer (CPO) program is designed for security professionals and students who wish to enter careers in security, loss prevention, and asset protection. It is for the career-oriented individual who holds the credential and has met a minimum standard for professional and ethical standards. The CPO is designed to show that the candidate has mastery level knowledge, skills and abilities, professionalism, critical thinking, de-escalation, emergency management, Homeland Security, and understanding of the National Preparedness System and response framework.						
Entry-Level Annual Salaries	Certified	Protection (Officer, loss	prevent	ion, a	nd assets prot	ectior	ה: \$26,950
CTE Program Alignment	Law and	Public Safe	ty					
	Indus	try-Based C	ertification R	equiren	nents:	Students		
Standard / Curriculum	blueprint	Curriculum is provided upon request along with manuals, lesson plans, and a blueprint is listed online. The curriculum has been cross-walked with Arizona and National LPSS standards.						
Testing Methodology (consists of two tests)	Paper?	No	Online – Cognitive portion	Yes		Performance Exams / Tests Psychomoto portion		Yes
Re-Testing (if available)	Re-Testin Procedur	9 motorio	5 days (study Il available)	/	Max Atter Allov	npts	1	
Testing Details (including any age requirements / accommodations)	The assessments are online and require little to no accommodations. Once a student or school pays for a certification, they are provided information on how to login to the assessment website to get started. If a student does require specific personal accommodations a request with details are required. The age requirements are limited to completers 18 years of age of who have completed an Arizona CTE approved LPSS program. If a student is 17 years of age upon completion of the ADE assessment, they receive a certificate of completion, however, upon their 18th birthday their certification is granted. We accept the Arizona assessment score and passing rate which is set by ADE. If a school provides us written proof which verifies the students name, score, and conformation of their age, IFPO accept the ADE score. Any student who does not meet the ADE score can take the assessment after 15 days through Proctorio. They are supplied a blueprint and study material.							
	Indus	try-Based C	ertification R	equiren	nents:	Teachers		
Instructor Certification Requirements (by certifying agency)	curriculur instructor instructor Tucson w district or	m. Based or s if they me training/ce when the state individual r	n this, we do eet the ADE rtification at ate allowed e	not rec require the Ariz ducato credenti	quire a ments zona C rs to ta ial, we	CTE Summer (ake the assess provide them	icatic or. V Confe smen	ons for the Ve have offered rences in t. If a school



Certified Protection Officer Fact Sheet

Proctoring / Test Security (if any)	We use an online assessment through Proctorio. Proctorio uses state-of-the-art technology and end-to-end data security. Proctorio ensures the total learning integrity of every assessment, every time.								
		Certificat	ion Tracki	ng					
Credentialing Documentation				ess website we document each certified ossessed, and the dates valid					
Certification Tracking System	Online Tracking System?	Yes	Yes Details Online database						
Other Details	Expiration Timeline?	Two or three ye	ears						
	C	ertification Costs	/ Funding	Sources					
Cost Details	\$130 per cert card)	tification for the 2	2020-202	1 school year. (Purchase order or credit					
Re-test / Refund Policies		Retest costs \$25 and refunds are available if the students request a refund prior to taking the exam.							
		For More	Informati	on					
Certifying Agency Contact Info		6th Avenue, Nort Maria Avenue, (



Data Analytics cert. #1 – Harnessing the Power of Data Fact Sheet

Certifying Organization	National C	National Coalition of Certification Centers (NC3)						
Name of Specific Credential	Data Anal	Data Analytics cert. #1 – Harnessing the Power of Data						
Description of Credentials	importanc also give t	This certification covers Data Analytics basics, an introduction. It will cover the importance of data related to building performance and energy efficiency, but will also give the student some general topic data set options to promote interest and capture their imagination.						
Entry-Level Annual Salaries	\$33,000+/	year						
CTE Program Alignment			ns, AgriScie Industrial E			ce, Digital Con rketing	nmun	ication,
	Indust	ry-Based C	ertification	Require	ments	Students		
Standard / Curriculum		Coalition of Industry sta		n Cente	ers (NC	C3) meets ADE	curri	culum and
Testing Methodology (consists of two tests)	Paper?	No	Online – Cognitive portion	Yes	Yes Performance Exams / Tests Psychomoto portion			Yes
Re-Testing (if available)	Re-Testing Procedure	the NC3	g is availat testing por ots allowed	tal, with	Max Atter Allov	mpts	3	
Testing Details (including any age requirements / accommodations)	Must be a person or		d by an NC	3 certifi	ed inst	ructor at an N	C3 ce	rtified school, in-
	Indust	ry-Based C	ertification	Require	ments:	Teachers		
Instructor Certification Requirements (by certifying agency)			t AZ DOE r certificatio		ients a	nd have a Nati	onal	Coalition of
Proctoring / Test Security (if any)	Per distric	Per district proctoring policy.						
			Certificatio	n Trackii	ng			
Credentialing Documentation	Through N instructors		palition of C	ertificat	ion Ce	nters national	webs	ite for
Certification Tracking System	Online Tracking System?	Yes		Details	featur	e tracking syst es available to gin and passw	o certi	ith reporting fied instructors



Data Analytics cert. #1 – Harnessing the Power of Data Fact Sheet

Other Details	Expiration Timeline? Website is updated yearly for students and instructor.							
Certification Costs / Funding Sources								
Cost Details	Cost is \$0 for	Cost is \$0 for NC3 curriculum and testing, \$395 for web-based instructor training.						
Re-test / Refund Policies	No cost to stu	udents for retest up to a maximum of 3 tests.						
		For More Information						
Certifying Agency Contact Info	National Coa michael.mcal	lition of Certification Centers (NC3), Michael McAlice, 619-405-5163, lice@nc3.net						



Data Analytics cert. #2 – Energy Analysis of Buildings Fact Sheet

Certifying Organization	National (National Coalition of Certification Centers (NC3)						
Name of Specific Credential	Data Ana	Data Analytics cert. #2 – Energy Analysis of Buildings						
Description of Credentials	types of s	systems in	buildings, ł	now ener	gy is u		tures	For example, , and the similar ergy analysis.
Entry-Level Annual Salaries	\$37,000+						5	
CTE Program Alignment	Engineeri	ing, HVAC,	Industrial	Electricia	an			
	Indus	try-Based C	ertification	Require	ments:	Students		
Standard / Curriculum		Coalition of ndustry sta		on Cente	ers (NC	3) meets ADE	curri	culum and
Testing Methodology (consists of two tests)	Paper?	Paper? No Online – Cognitive portion Yes Performance Exams / Tests? Psychomotor portion					Yes	
Re-Testing (if available)		Retesting is available via the NC3 testing portal, with Procedures:Max # of Attempts Allowed:3						
Testing Details (including any age requirements / accommodations)	Must be a person or		ed by an N(C3 certifi	ed inst	ructor at an N	C3 ce	rtified school, in-
	Indust	try-Based C	ertification	Require	ments:	Teachers		
Instructor Certification Requirements (by certifying agency)		must mee ion Centers			ents a	nd have a Nati	ional	Coalition of
Proctoring / Test Security (if any)	Per district proctoring policy.							
			Certificatio	on Trackir	ng			
Credentialing Documentation	Through instructor		palition of (Certificat	ion Ce	nters national	webs	ite for
Certification Tracking System	Online Tracking System?	Yes		Details	featur	e tracking syst es available to gin and passw	o certi	ith reporting fied instructors



Data Analytics cert. #2 – Energy Analysis of Buildings Fact Sheet

Other Details	Expiration Timeline? Website is updated yearly for students and instructor.							
Certification Costs / Funding Sources								
Cost Details	Cost is \$0 for	Cost is \$0 for NC3 curriculum and testing, \$395 for web-based instructor training.						
Re-test / Refund Policies	No cost to stu	udents for retest up to a maximum of 3 tests.						
		For More Information						
Certifying Agency Contact Info	National Coa michael.mcal	lition of Certification Centers (NC3), Michael McAlice, 619-405-5163, lice@nc3.net						



Certifying Organization	National (National Coalition of Certification Centers (NC3)						
Name of Specific Credential		Data Analytics cert. #3 – Introduction to Energy Optimization in Buildings Utilizing Static Data						
Description of Credentials						ng real but sta an excellent v		ta that covers a look at data.
Entry-Level Annual Salaries	\$50,000+/	/year						
CTE Program Alignment	Engineeri	ng, HVAC,	Industrial	Electricia	an			
	Indust	ry-Based C	ertificatio	n Require	ments:	Students		
Standard / Curriculum		Coalition of ndustry sta		ion Cente	ers (NC	3) meets ADE	curri	culum and
Testing Methodology (consists of two tests)	Paper?	No	Online - Cognitiv portion	ognitive Yes Exams / Tests?			-	Yes
Re-Testing (if available)		Retesting is available via the NC3 testing portal, with Procedures:Max # of Attempts Allowed:3						
Testing Details (including any age requirements / accommodations)	Must be a person or		d by an N	C3 certifi	ed inst	ructor at an N	C3 ce	rtified school, in-
	Indust	ry-Based C	ertification	n Require	ments:	Teachers		
Instructor Certification Requirements (by certifying agency)		must mee on Centers			ients a	nd have a Nat	ional	Coalition of
Proctoring / Test Security (if any)	Per distric	Per district proctoring policy.						
			Certificati	on Trackii	ng			
Credentialing Documentation	Through I instructors		palition of	Certificat	ion Ce	nters national	webs	ite for
Certification Tracking System	Online Tracking System?	Yes		Details	featur	e tracking syst es available to gin and passw	o certi	ith reporting fied instructors

Data Analytics – Introduction to Energy Optimization in Buildings Utilizing Static Data Fact Sheet Page 1 of 2



Other Details	Expiration Timeline? Website is updated yearly for students and instructor.							
Certification Costs / Funding Sources								
Cost Details	Cost is \$0 for	Cost is \$0 for NC3 curriculum and testing, \$395 for web-based instructor training.						
Re-test / Refund Policies	No cost to st	udents for retest up to a maximum of 3 tests.						
		For More Information						
Certifying Agency Contact Info	National Coa michael.mca	lition of Certification Centers (NC3), Michael McAlice, 619-405-5163, lice@nc3.net						



	1							
Certifying Organization	National (National Coalition of Certification Centers (NC3)						
Name of Specific Credential	Data Anal	Data Analytics cert. #4 – Advanced Building Optimization Utilizing Current Data						
Description of Credentials	Trane Co		nat we use	in Intelli	gent S	ervices.The da		n current data. current in that
Entry-Level Annual Salaries	\$52,000+/	/year						
CTE Program Alignment	Engineeri	ng, HVAC,	Industrial	Electricia	an			
	Indust	ry-Based C	ertification	n Require	ments	Students		
Standard / Curriculum		Coalition of ndustry sta		on Cente	ers (NC	C3) meets ADE	curri	iculum and
Testing Methodology (consists of two tests)	Paper?	No	Online – Cognitiv portion	ognitive Yes Exams / Tests				Yes
Re-Testing (if available)		Retesting is available via the NC3 testing portal, with Procedures:Max # of Attempts Allowed:3						
Testing Details (including any age requirements / accommodations)	Must be a person or		ed by an N	C3 certifi	ed inst	ructor at an No	C3 ce	ertified school, in-
	Indust	ry-Based C	ertificatior	n Require	ments:	Teachers		
Instructor Certification Requirements (by certifying agency)		must mee on Centers			ients a	nd have a Nati	ional	Coalition of
Proctoring / Test Security (if any)	Per distric	Per district proctoring policy.						
			Certification	on Trackii	ng			
Credentialing Documentation	Through I instructors		calition of	Certificat	ion Ce	nters national	webs	ite for
Certification Tracking System	Online Tracking System?	Yes		Details	featur	e tracking syst es available to gin and passw	o certi	ith reporting ified instructors

Data Analytics – Introduction to Energy Optimization in Buildings Utilizing Static Data Fact Sheet Page 1 of 2



Other Details	Expiration Timeline? Website is updated yearly for students and instructor.							
	Certification Costs / Funding Sources							
Cost DetailsCost is \$0 for NC3 curriculum and testing, \$395 for web-based instructor training. Additional cost is dependent on technology currently available in the school building.								
Re-test / Refund Policies	No cost to stu	udents for retest up to a maximum of 3 tests.						
		For More Information						
Certifying Agency Contact Info		National Coalition of Certification Centers (NC3), Michael McAlice, 619-405-5163, michael.mcalice@nc3.net						



HVAC EPA 608 Fact Sheet

Certifying Organization	Western	Western Maricopa Education Center						
Name of Specific Credential	HVAC EF	HVAC EPA 608						
Description of Credentials	service, r certified i sales res	epair or dis n proper re	pose of appl frigerant han efrigerants, l	liances Idling te	that co	ires that all per ontain regulate ues. The EPA le of regulated	ed ref has a	also placed a
Entry-Level Annual Salaries	\$35,322							
CTE Program Alignment	Heating,	Ventilation	and Air Con	ditionin	g - 47.	0200.00		
	Indus	try-Based C	Certification F	Require	ments:	Students		
Standard / Curriculum	Goodhea	rt Willcox N	Aodern Refri	geratio	n/HVA	C Excellence		
Testing Methodology (consists of two tests)	Paper?	No	No Online – Cognitive portion Yes Performance Exams / Tests? Psychomotor portion No					
Re-Testing (if available)	Re-Testin Procedur				Max Atter Allov	npts	Unli	mited
Testing Details (including any age requirements / accommodations)	No age re Valid ID Must be p	equirement proctored						
	Indus	try-Based C	Certification R	Require	nents:	Teachers		
Instructor Certification Requirements (by certifying agency)	to teach i if the inst	n this area ructor wan	, as well as h ts to be the p	nave the proctor	e Proc of the	tor certificatior exams.	n from	on requirements a ESCO Institute
Certifying agency)Test Administrator (Proctor) Responsibilities • Proctors conducting the EPA Section 608 Exam, are REQUIRED BY LAW to visibly display the ESCO Institute EPA approval letter. A copy is enclosed (page 2) in this proctor manual. • Unless otherwise specified, all exams are retained knowledge exams and therefore are conducted Closed Book. • Paper exams must be securely stored, in a locked cabinet, where only registered proctors can access them. • Do not share your login information (user id, password) with anyone else. If a registered proctor is not available to conduct the exams, DO NOT allow other people to conduct the exam on your behalf. Contact ESCO Institute to add additional proctors. • Proctors must verify an exam candidate's identity by checking their photo identification prior to administering the exam. • Exams shall be conducted in a quiet, comfortable, and well illuminated area. • Phones, tablets, smart watches, cameras are forbidden to use during the exam. • A calculator (four-function preferred) and a pressure/temperature chart may be used during the exam. •								



HVAC EPA 608 Fact Sheet

	Scratch paper shall be provided to test candidates for use during the exam. Proctors must collect and properly dispose of scratch paper after the exam to ensure candidates have not recorded exam items. • One (1) proctor can test up to 35 candidates at one time; if testing more than 35 candidates, a second proctor is required. • Proctors must witness the administration of ALL examinations, online or paper. • Proctors must adhere to all verbal and written instructions set forth by ESCO Institute and its affiliates pursuant to test administration. • Proctors must notify ESCO Institute within ten (10) business days with any changes to your contact information or employment. • Proctors will not assist exam candidates on the meaning of any test questions. • Proctors cannot copy, distribute, post, publish, etc., copies of exams or exam questions as "study aids." Failure to comply with these rules may result in the revocation of proctorship.							
		Certificat	ion Tracki	ng				
Credentialing Documentation	Certifications	are tracked thro	ough the E	ESCO Institute website				
Certification Tracking System	Online Tracking System?	Yes	Details	https://www.escogroup.org/student/login.a spx?ReturnUrl=%2fstudent%2fdefault.asp <u>X</u> Credentials are tracked online through a portal system. See link above.				
Other Details	Expiration Timeline?	NONE						
	C	ertification Costs	/ Funding	Sources				
Cost Details				ctored, \$25 Proctored by the is a certified proctor through ESCO				
Re-test / Refund Policies	Students can retest for 608 up to 4 times							
		For More	Informati	on				
Certifying Agency Contact Info	ESCO Telepl 3726 fax	none: (847) 253-	2220 • To	oll Free: (800) 726-9696 • Fax: (800) 546-				



HVAC EPA 609 Fact Sheet

Certifying Organization	Western Maricopa Education Center/ESCO							
Name of Specific Credential	HVAC EPA 609							
Description of Credentials	Any person who repairs or services a motor vehicle air conditioning (MVAC) system for consideration must be properly trained and certified under section 609 of the Clean Air Act by an EPA-approved program. All technicians servicing MVAC-like appliances must be certified. EPA-approved technician training and certification (TT&C) programs provide education on the proper use of MVAC servicing equipment, the applicable regulatory requirements, the importance of refrigerant recovery, as well as the effects of improper handling of refrigerants on the ozone layer and climate. To be certified, technicians must be trained by an EPA-approved program and pass a test demonstrating their knowledge in these areas.							
Entry-Level Annual Salaries	\$35,322							
CTE Program Alignment	Heating, Ventilation and Air Conditioning - 47.0200.00							
	Indus	try-Based C	ertification R	equiren	nents:	Students		
Standard / Curriculum Goodheart Willcox Modern Refrigeration/HVAC Excellence								
Testing Methodology (consists of two tests)	Paper?	Yes	Online – Cognitive portionYesPerformance Exams / Tests? Psychomotor portionNo				No	
Re-Testing (if available)	Re-Testin Procedur			Max # of Attempts Allowed:			mited	
Testing DetailsNo age requirement(including any age requirements / accommodations)No age requirement009 can be open book009 can be open book								
Industry-Based Certification Requirements: Teachers								
Instructor Certification Requirements (by certifying agency)								
Proctoring / Test Security (if any)							est can be	
			Certification	Trackin	g			
Credentialing Documentation	Certifications are tracked through the ESCO Institute website							



HVAC EPA 609 Fact Sheet

Certification Tracking System	Online Tracking System?	Yes Details		https://www.escogroup.org/student/logir spx?ReturnUrl=%2fstudent%2fdefault.a <u>X</u> Credentials are tracked online through a portal system. See link above.			
Other Details	Expiration Timeline?	NONE					
Certification Costs / Funding Sources							
Cost Details	EPA 609 exam costs \$20 if online proctored, \$12 Proctored by the School/Instructor as long as instructor is a certified proctor through ESCO institute.						
Re-test / Refund Policies	EPA 609 have no re-tests. If you do not pass those, you have to pay again.						
For More Information							
Certifying Agency Contact Info	ESCO Telephone: (847) 253-2220 • Toll Free: (800) 726-9696 • Fax: (800) 546- 3726 fax						



R-410A Refrigerant Certification Fact Sheet

Certifying Organization	Western Maricopa Education Center/ESCO							
Name of Specific Credential	R-410A F	R-410A Refrigerant Certification						
Description of Credentials	Because many HFC refrigerants, such as R-410A, operate at considerably higher pressures than many other refrigerants, safety training is imperative. R-410A systems will require service professionals to use different tools and equipment when installing, retrofitting, or repairing these systems. Currently HFC refrigerants, including R-410A, are not covered under the refrigerant sales restriction of the Clean Air Act Amendments, and, at this time the U.S. Environmental Protection Agency does not require or mandate a separate certification for the handling of these refrigerants. Nevertheless, many equipment manufacturers are well aware of the concerns and safety issues of working with HFC refrigerants and are requiring service professionals to be 410a certified.							
Entry-Level Annual Salaries	\$35,322							
CTE Program Alignment	Heating, Ventilation and Air Conditioning - 47.0200.00							
	Indus	try-Based C	ertification R	equirer	nents	Students		
Standard / Curriculum	(Coodbear Willcox Wodern Retrigeration/HV/V(CExcellence							
Testing Methodology (consists of two tests)	Paper?YesOnline – Cognitive portionYesPerformance Exams / Tests? Psychomotor portionNo						No	
Re-Testing (if available)	Re-Testing Procedures: None Max # of Attempts Allowed: Unlimited				mited			
Testing Details (including any age requirements / accommodations) Must have EPA 608 certification first No age requirement Valid ID Must be proctored 410a can be open book								
Industry-Based Certification Requirements: Teachers								
Instructor Certification Requirements (by certifying agency) Instructor must meet Arizona Department of Education certification requirements to teach in this area, as well as have the Proctor certification from ESCO Institute if the instructor wants to be the proctor of the exams.								
Proctoring / Test Security (if any)	 Study the online manual and review the material. Create or login to your personal certification profile. You will be connected to our secure server so that your information is encrypted over the Internet. Select the exam(s) you would like to take. If you select an exam you must pay for, such as this exam, you will be required to pay for your exam <i>before</i> you begin. You will be charged regardless of whether you finish your exam or not. If you become disconnected or must leave the exam you can resume your 							



R-410A Refrigerant Certification Fact Sheet

exam at any time by logging back into your personal certification profile and click the 'resume exam' link. 4. If you would like to pay using a personal check or a money order you must create a certification profile and click on the exam you would like to take. Continue with the screens that follow until you are prompted to pay by Visa/MasterCard or by Check/Money Order. You will be asked to print an order request form to send in with your payment. YOU MUST SEND THIS ORDER FORM IN WITH YOUR CHECK OR MONEY ORDER. 5. This is an **open book** exam, you may use the manual freely, but **you may** not receive help from any other person. 6. When the exam is presented, a link to the manual is listed at the top of the exam. Most browsers will bring up another window with the manual in it. If yours does not, we suggest that you do this yourself. This way, you will have a copy of the manual to refer to while you take the exam. If you prefer you can download a copy of the manual before proceeding. 7. The Exam consists of 25 multiple choice questions. You must get at least 21 correct in order to pass the exam. Unanswered questions will be marked as wrong. 8. If during the exam, you should become disconnected, you can reconnect to your exam by logging in to your personal certification account and clicking on the "Resume Test" link. 9. If for any reason during the course of the exam you are unhappy with this online exam program, you can receive a full refund by sending an email to info@epatest.com that explains the nature of your complaint. Refunds will not be given for completed tests regardless of the outcome. Your name will be retained in our database and you will be banned from future exams with Mainstream Engineering. 10. Once you finish the exam you will be required to declare that you did not cheat in any way. Failure to make this declaration will keep you from becoming Mainstream R410A Certified. **Certification Tracking** Credentialing Certifications are tracked through the ESCO Institute website Documentation https://www.escogroup.org/student/login.a Online spx?ReturnUrl=%2fstudent%2fdefault.asp Certification Tracking Yes Details Х Tracking System System? Credentials are tracked online through a portal system. See link above. Expiration NONE **Other Details** Timeline? **Certification Costs / Funding Sources** 410a exam costs \$25 **Cost Details** Re-test / Refund 410a has a \$5 re-test fee, you can re-test as many times as needed. Policies For More Information Certifying Agency ESCO Telephone: (847) 253-2220 • Toll Free: (800) 726-9696 • Fax: (800) 546-Contact Info 3726 fax



Lincoln Electric NC3 Fact Sheet

Lincoln Electric NC3

Certifying Organization	National (Coalitior	n of Certificat	ion Cente	er (NC3	3)		
Name or Names of Specific Credential	Lincoln El	lectric N	C3					
Description of each Credential named above	These na employme			are portab	le and	stackable thro	ougho	ut the industrial
Entry-Level [Annual Salaries	DOT Labo	DOT Labor \$35,000 - \$50,000						
CTE Program Alignment	Welding							
	Indust	try-Base	d Certificatio	n Require	ments:	Students		
Standard /	National Coalition of Certification Centers (NC3), meets ADE Curriculum and National Industry Standards.							
Testing Methodology (consists of two tests)	Paper?	No	Online Cognitiv portion	/e Yes		Performance Exams / Tests Psychomoto portion		Yes
Re-Testing (if available)	Re-Testing Procedure	9	must be pro ructor.	octored b	y Max Atter Allov	n pts 3		
(including any age	Student must meet Arizona Department of Education secondary agerequirements and meet program eligibility requirements.							
	Industry-Based Certification Requirements: Teachers							
Instructor Certification Requirements (by certifying agency)	Instructor must meet Arizona Department of Education certification requirements to teach in this area and have a National Coalition of Certification Center certification.							
Proctoring / Test Security (if any)	Per district test policy,							
			Certificat	ion Tracki	ng			
Credentialing Documentation	Through National Coalition of Certification Centers national website for instructors.							
Certification Tracking System	Online Tracking System?	Online Tracking Yes Details Certified instructor login and paceword						n and
Other Details	Expiration Timeline? Website is updated yearly for students and instructor.							



Lincoln Electric NC3 Fact Sheet

Cost Details	Varies by district. Cost is \$0 - \$25 per student					
Re-test / Refund Policies	Varies by program. No cost to students for retest up to a maximum of 3 tests.					
For More Information						
Certifying Agency	National Coalition of Certification Centers (NC3) Alex Brookhouse P.O.					