

NCCER Instrumentation COMBINED March 8, 2019

Certifying Organization	National Center for Construction Education and Research (NCCER) http://www.nccer.org/					
Description of Credentials	NCCER credentials provide students with immediate credibility among hiring executives in construction, manufacturing, maritime and all related industry sectors, giving certified students an advantage in attaining entry-level employment. Instrument Fitters and Technicians perform key installation and maintenance functions across several industries. The field of instrumentation covers important processes and knowledge areas, including piping, tubing, fasteners, and metallurgy. Instrumentation Technicians and Fitters are familiar with electrical systems, craft-specific drawings, and are experts in the hand and power tools specific to their trade. NCCER's curriculum addresses all of the learning objectives associated with this broad and demanding field, in areas such as Fasteners, Relays and Timers, and Grounding and Shielding of Instrumentation Wiring.					
	Level 1 IBC#: 214	Certification in NCCER Instrumentation Level 1 shows the individual has demonstrated knowledge in Hand Tools for Instrumentation; Electrical Safety; Power Tools for Instrumentation; Electrical Systems for Instrumentation; Metallurgy for Instrumentation Fasteners, Instrument Drawings and Documents, Part One; Gaskets and Packing; Lubri Sealants, and Cleaners; Flow, Pressure, Level, and Temperature; Tubing, Piping – 2 inc and under and Hoses.				
	Level 2 IBC#: 215	Certification in NCCER Plumbing Level 2 shows the individual has demonstrated Instrumental skills including Craft-Related Mathematics; Instrument Drawings and Documents, Part Two; Principles of Welding for Instrumentation; Process Control Theo Detectors, Secondary Elements, Transducers, & Transmitters; Controllers, Recorders, a Indicators; Control Valves, Actuators, and Positioners; Relays and Timers; Switches and Photoelectric Devices; Filters, Regulators, and Dryers; Analyzers and Monitors; Panel-Mounted Instruments; Installing field-Mounted Instruments and Raceways for Instrumentation.				
	Level 3 IBC#: 216	Certification in NCCER Instrumentation Level 3 shows the individual has demonstrated Instrumental skills including Instrument Fitter's Math; Layout and Installation of Tubing and Piping Systems; Clean, Purge, and Test Tubing and Piping Systems; Receive, Inspect, Handle and Store Instrumentation; Instrumentation Theory; Grounding and Shielding of Instrumentation Wiring; Terminating Conductors and Protective Measures for Instrumentation.				
	Level 4 IBC#: 217	Certification in NCCER Instrumentation Level 4 shows the individual has demonstrated Instrumental skills including Digital Logic Circuits; Instrument Calibration and Configuration; Performing Loop Checks; Troubleshooting and Commissioning a Loop; Tuning Loops; Programmable Logic Controllers; Distributed Control Systems and Analyzers.				
Part of which Graduation Pathways ¹	Integrated: Manufacturing, Construction Crafts and Logistics					
Associated with Which Careers?	4 Stars: Electrical and Electronics Engineering Technicians; Avionics Technicians; Maintenance and Repair Workers, General; 3 Stars: Electrical and Electronic Equipment Assemblers					
Entry-Level Annual Salaries	\$20,178 - \$40,802					



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Industry-Based Certification Requirements: Students									
Standard / Curriculum	NCCER Core is a prerequisite for completion of all NCCER credentials (and all Helper pathways). Classes may be taught concurrently, but Level 1 or above credentials cannot be attained until NCCER Core has been successfully completed NCCER Instrumentation Curriculum Following completion of Level 1, higher levels may be attempted in sequential order.								
Testing Methodology	Paper? Yes Online? Yes Performance Exams / Tests?		Yes						
Re-Testing (if available)	Procedures	I hour snangstudents may not be exposed to the					No maximum number of attempts		
Testing Details (including any age requirements / accommodations)	NCCER does not have any age restrictions for their credentials. NCCER assessments must be supervised by a certified NCCER Craft Instructor or Proctor at a certified NCCER Training Facility. Before any assessment is given to the student, instructor must have an NCCER Registration and Release Form on file for the student with parent/guardian signature. Students must pass written exam with a score of 70% or better. Performance verifications are pass/fail and must be signed off by the certified Craft Instructor.								
Industry-Based Certification Requirements: Teachers Bulletin 746, Chapter 5: All Louisiana teachers providing instruction in a course that leads to an IBC must hold the certification that they're teaching students to attain.									
Instructor Certification Requirements (by certifying agency)	Instructor must be a certified NCCER Instrumentation Instructor with current certification at the level he or she is teaching. The state must have a Form 702A and documentation of skill on file at the Department of Education for instructors to certify students in NCCER Instrumentation. To maintain NCCER Instructor certification, instructor must have Registration of Training Modules approved by NCCER before ICTP expiration (certification will be extended 3 years from completion date on Registration of Training Modules).								
Proctoring / Test Security (if any)	Only Master Trainers and NCCER Certified Instructors will have access to the tests. Tests will be administered by the instructor or Curriculum (ICTP) Proctor. Testing accommodations, specifically tests read aloud, are only available for designated students. NCCER has given permission for school personnel to administer the assessment in a one-on-one setting provided the NCCER Craft Instructor ensures test security and documentation of IEP is kept on file.								
			Certifica	tion Trackin	g				
All scored module tests (both written and performance) will be kept in a secure physical or electronic location for at least three years. Results are submitted through the NCCER Registry. Students, upon completion of NCCER Core and all NCCER Instrumentation modules, will receive a certificate and/or NCCER Card (this card is provided one time upon completion of first NCCER certification). Sample NCCER Credential Sample NCCER Wallet Card									
Certification Tracking System	Online Tracking System? Yes Details N/A								
Other Details	Expiration Timeframe?	NCCER Instrumentation credentials do not expire.							



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Certification Costs / Funding Sources							
Cost Details	There is a one-time \$50 site application fee paid at initial site accreditation. No other certification costs are required by NCCER. It is the responsibility of certifying agency (school/district) to provide access to consumables and machinery needed to certify students. Online Testing is purchased through NCCER's Online Testing system . NCCER Instrumentation Trainee Guides: Level 1: \$67.00; Level 2: \$97.00						
Re-test / Refund Policies	No costs are associated with test or retest. There is a minimal fee for online assessments.						
Funding Sources ²	CDF?	Yes	Perkins?	Yes	Alternative Source (other than General Funds)		
For More Information							
Certifying Agency Contact Info	NCCER 1- (888) 622-3720 Pearson (textbooks)- Bill Underwood (800) 720-3870 william.underwood@pearson.com						
LDOE Contact	JumpStart@la.gov						

^{1 –} This table may not include all the graduation pathways this credential appears in. Please check the <u>graduation pathway</u> you are working with if you have a question as to whether or not this credential is part of that pathway. Always check with certifying agency for latest updates.

^{2 –} CDF = Career Development Fund