



# National Craft Assessment and Certification Program S P E C I F I C A T I O N S

## INSTRUMENTATION FITTER V3

(FINST12\_02)

Released May 2005

### Overview

This written assessment is a two-hour closed-book examination. You will be permitted to use a basic function, non-printing calculator during the examination. The assessment center will provide any necessary pencils. No extra papers, books, notes or study materials are allowed in the testing area.

### Study Material

All NCCER written assessments are referenced to Contren<sup>®</sup> Learning Series modules listed in the content. You may order modules from Pearson (800.922.0579) or from NCCER's Online Catalog at [www.nccer.org](http://www.nccer.org).

### Assessment Development

All questions on each assessment have been developed and approved by subject matter experts from the respective craft. Assessment development and administration is under the direction of Prov<sup>™</sup>, NCCER's testing partner.

### Credentials

NCCER will send appropriate credentials (certificate, wallet card and official transcript) to the assessment center upon successful completion of the written assessment.

### Training Prescription Reports

Each candidate will have access to individual results of the written assessment from Prov's website at [www.provexam.com](http://www.provexam.com). This training prescription will include the overall score and results by topic area.

### National Registry

Assessment results will be maintained in NCCER's National Registry and become a part of each candidate's training records. These records are stored and become a portable record of the candidate's training and assessment achievements.

### Focus Statement

An instrument fitter lays out, fabricates, installs, and performs leak testing on tubing and piping systems. The fitter also installs instruments, instrument stands, and is able to interpret instrument construction drawings, specifications, and any other resource documents. The instrument fitter is expected to exhibit basic mechanical and mathematical skills and to demonstrate good safety practices, especially electrical safety.

### Written Assessment Contents:

Module Number	Topic Area	# of Questions
00101-04	Basic Safety	4
00102-04	Introduction to Construction Math	5
00103-04	Introduction to Hand Tools	4
12101-01	Hand Tools for Instrumentation	4
12102-01	Electrical Safety	4
12103-01	Power Tools for Instrumentation	4
12105-01	Metallurgy for Instrumentation	4
12106-01	Fasteners	4
12107-01	Instrumentation Drawings and Documents, Part One	5
12108-01	Gaskets and Packing	4
12109-01	Lubricants, Sealants, and Cleaners	4
12110-01	Flow, Pressure, Level, and Temperature	4
12111-01	Tubing	7
12112-01	Piping – 2" and Under	5
12202-03	Instrumentation Drawings and Documents, Part Two	4
12205-03	Detectors, Secondary Elements, Transducers, and Transmitters	4
12207-03	Control Valves, Actuators, and Positioners	5
12212-03	Panel-Mounted Instruments	4
12213-03	Installing Field-Mounted Instruments	5
12301-03	Instrument Fitter's Math	5
12302-03	Layout and Installation of Tubing and Piping Systems	21
12303-03	Clean, Purge, and Test Tubing and Piping Systems	4
12308-03	Protective Measures for Instrumentation	4
<b>Total Number of Questions</b>		<b>118</b>

*The cut score for this assessment is 70%.*

*A Performance Verification is available.*