



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

### CORE V2

### ICS00\_02

October 2013

#### Focus Statement

This assessment covers all of the competencies and objectives of NCCER's Core Curriculum: Introductory Craft Skills.

#### Overview

- Two-hour closed-book examination
- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed
- The minimum passing score is 75

#### Study Materials

All NCCER written assessments are referenced to NCCER's curriculum 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

#### Written Assessment Contents:

| Content Domain                              | Number of Questions |
|---------------------------------------------|---------------------|
| <b>Safety</b> [00101-09, 00109-09]          | 10                  |
| <b>Math</b> [00102-09]                      | 7                   |
| <b>Tools</b> [00103-09, 00104-09]           | 9                   |
| <b>Construction Drawings</b> [00105-09]     | 4                   |
| <b>Rigging</b> [00106-09]                   | 4                   |
| <b>Critical Skills</b> [00107-09, 00108-09] | 16                  |
| <b>Total Number of Questions</b>            | <b>50</b>           |

All questions are developed and approved by subject matter experts under the direction of NCCER and Prov™, NCCER's testing partner.

#### Credentials

NCCER will send appropriate credentials to the assessment center for successful completions.

#### 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).

#### National Registry

Assessment results will be maintained in NCCER's National Registry and become a portable record of the candidate's training and assessment achievements.



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Learning Objectives related to Assessment:

| Safety                     |                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Registry ID Number:</b> | <b>Module Title Objectives:</b>                                                                                                                                              |
| <b>00101-09</b>            | <b>Basic Safety</b>                                                                                                                                                          |
|                            | Explain the idea of a safety culture and its importance in the construction crafts.                                                                                          |
|                            | Identify causes of accidents and the impact of accident costs.                                                                                                               |
|                            | Explain the role of OSHA in job-site safety.                                                                                                                                 |
|                            | Explain OSHA's General Duty Clause and 1926 CFR Subpart C.                                                                                                                   |
|                            | Recognize hazard recognition and risk assessment techniques.                                                                                                                 |
|                            | Explain fall protection, ladder, stair, and scaffold procedures and requirements.                                                                                            |
|                            | Identify struck-by hazards and demonstrate safe working procedures and requirements.                                                                                         |
|                            | Identify caught-in-between hazards and demonstrate safe working procedures and requirements.                                                                                 |
|                            | Define safe work procedures to use around electrical hazards.                                                                                                                |
|                            | Demonstrate the use and care of appropriate personal protective equipment (PPE).                                                                                             |
|                            | Explain the importance of hazard communications (HazCom) and Material Data Safety Sheets (MSDSs).                                                                            |
|                            | Identify other construction hazards on your job site, including hazards material exposures, environmental elements, welding and cutting hazards, confined spaces, and fires. |
| <b>00109-09</b>            | <b>Introduction to Materials Handling</b>                                                                                                                                    |
|                            | Define a load.                                                                                                                                                               |
|                            | Establish a pre-task plan prior to moving a load.                                                                                                                            |
|                            | Choose appropriate materials-handling equipment for the task.                                                                                                                |
|                            | Recognize hazards and follow safety procedures required for materials handling.                                                                                              |
| Math                       |                                                                                                                                                                              |
| <b>Registry ID Number:</b> | <b>Module Title Objectives:</b>                                                                                                                                              |
| <b>00102-09</b>            | <b>Introduction to Construction Math</b>                                                                                                                                     |
|                            | Add, subtract, multiply, and divide whole numbers, with and without a calculator.                                                                                            |
|                            | Use a standards ruler, a metric ruler, and a measuring tape to measure.                                                                                                      |
|                            | Add, subtract, multiply, and divide fractions.                                                                                                                               |
|                            | Add, subtract, multiply, and divide decimals, with and without a calculator.                                                                                                 |
|                            | Convert decimals to percentages and percentages to decimals.                                                                                                                 |
|                            | Convert fractions to decimals and decimals to fractions.                                                                                                                     |
|                            | Explain what a metric system is and how it is important in the construction trade.                                                                                           |
|                            | Recognize and use metric units of length, weight, volume, and temperature.                                                                                                   |
|                            | Recognize some of the basic shapes used in the construction industry and apply basic geometry to measure them.                                                               |
| Tools                      |                                                                                                                                                                              |
| <b>Registry</b>            | <b>Module Title Objectives:</b>                                                                                                                                              |

|                            |                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>ID Number:</b>          |                                                                                                               |
| <b>00103-09</b>            | <b>Introduction to Hand Tools</b>                                                                             |
|                            | Recognize and identify some of the basic hand tools and their proper uses in the construction trade.          |
|                            | Visually inspect hand tools to determine if they are safe to use.                                             |
|                            | Safely use hand tools.                                                                                        |
| <b>00104-09</b>            | <b>Introduction to Power Tools</b>                                                                            |
|                            | Identify power tools commonly used in the construction trades.                                                |
|                            | Use power tools safely.                                                                                       |
|                            | Explain how to maintain power tools properly.                                                                 |
|                            |                                                                                                               |
|                            | <b>Construction Drawings</b>                                                                                  |
| <b>Registry ID Number:</b> | <b>Module Title Objectives:</b>                                                                               |
| <b>00105-09</b>            | <b>Introduction to Construction Drawings</b>                                                                  |
|                            | Recognize and identify basic construction drawing terms, components, and symbols.                             |
|                            | Relate information on construction drawings to actual locations on the print.                                 |
|                            | Recognize different classifications of construction drawings.                                                 |
|                            | Interpret and use drawing dimensions.                                                                         |
|                            |                                                                                                               |
|                            | <b>Rigging</b>                                                                                                |
| <b>Registry ID Number:</b> | <b>Module Title Objectives:</b>                                                                               |
| <b>00106-09</b>            | <b>Basic Rigging</b>                                                                                          |
|                            | Identify and describe the use of slings and common rigging hardware.                                          |
|                            | Describe basic inspection techniques and rejection criteria used for slings and hardware.                     |
|                            | Describe basic hitch configurations and their proper connections.                                             |
|                            | Describe basic load-handling safety practices.                                                                |
|                            | Demonstrate proper use of American Society of Mechanical Engineers (ASME) hand signals.                       |
|                            |                                                                                                               |
|                            | <b>Critical Skills</b>                                                                                        |
| <b>Registry ID Number:</b> | <b>Module Title Objectives:</b>                                                                               |
| <b>00107-09</b>            | <b>Basic Communication Skills</b>                                                                             |
|                            | Interpret information and instructions presented in both verbal and written form.                             |
|                            | Communicate effectively in on-the-job situations using verbal and written skills.                             |
|                            | Communicate effectively on the job using electronic communication devices.                                    |
| <b>00108-09</b>            | <b>Basic Employability Skills</b>                                                                             |
|                            | Explain the role of an employee in the construction industry.                                                 |
|                            | Demonstrate critical thinking skills and the ability to solve problems using those skills.                    |
|                            | Demonstrate knowledge of computer systems and explain common uses for computers in the construction industry. |
|                            | Define effective relationship skills.                                                                         |
|                            | Recognize workplace issues such as sexual harassment, stress, and substance abuse.                            |