



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

**MARITIME CORE
MACORE84**

June 2014

Focus Statement

This assessment covers the competencies and objectives of NCCER's Core Curriculum: Introductory Craft Skills and Introduction to the Maritime Industry that are relevant to the person new to the maritime industry.

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

Assessment Development

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.

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.

Written Assessment Contents:

| Content Domain | Number of Questions |
|---|----------------------------|
| Safety [00101-09] | 20 |
| Math [00102-09] | 15 |
| Tools [00103-09, 00104-09] | 20 |
| Construction Drawings [00105-09] | 12 |
| Rigging [00106-09] | 6 |
| Critical Skills [00107-09, 00108-09] | 15 |
| Maritime Industry Basics [84101-12] | 12 |
| Total Number of Questions | 100 |



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Learning Objectives related to Assessment:

| Safety | |
|---------------------|--|
| Registry ID Number: | Module Title Objectives: |
| 00101-09 | Basic Safety |
| | 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. |
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| Math | |
| Registry ID Number: | Module Title Objectives: |
| 00102-09 | Introduction to Construction Math |
| | 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. |
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| Tools | |
| Registry ID Number: | Module Title Objectives: |

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| 00103-09 | Introduction to Hand Tools |
| | 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. |
| 00104-09 | Introduction to Power Tools |
| | Identify power tools commonly used in the construction trades. |
| | Use power tools safely. |
| | Explain how to maintain power tools properly. |
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| | Construction Drawings |
| Registry ID Number: | Module Title Objectives: |
| 00105-09 | Introduction to Construction Drawings |
| | 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. |
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| | Rigging |
| Registry ID Number: | Module Title Objectives: |
| 00106-09 | Basic Rigging |
| | 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. |
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| | Critical Skills |
| Registry ID Number: | Module Title Objectives: |
| 00107-09 | Basic Communication Skills |
| | 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. |
| 00108-09 | Basic Employability Skills |
| | 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. |
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| | Maritime Industry Basics |
| 84101-12 | Introduction to the Maritime Industry |
| | Provide an overview of the maritime manufacturing/repair industry. |
| | Identify and explain the terms commonly used in the maritime manufacturing/repair industry. |

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| | Describe the different work processes related to shipyards, repair yards, and rigs.. |
| | Identify the different careers within the maritime manufacturing /repair. |
| | Explain the purpose of Maritime OSHA (1915), EPA, Coast Guard, Navy, ABS, DNV, and Lloyds. |
| | Explain the maritime manufacturing/repair industry specific safety considerations. |
| | Identify the elements of a maritime manufacturing/repair industry general arrangement (GA) drawing. |