



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

**Industrial Maintenance Mechanic V3**  
**(MEIDMT32\_03)**  
*Released August 2010*

## 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 material are allowed in the testing area.

## Study Material

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

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™, 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

A journey-level Industrial Maintenance Mechanic should be able to:

- Identify basic safety and rigging practices
- Identify tools, equipment and best practices for oxyfuel cutting
- Solve mathematical problems such as area, volume, sine, cosine, hypotenuse and Pythagorean concepts
- Interpret construction drawings
- Identify pumps, drivers, valves and their installation and troubleshooting practices
- Create pipe fittings, perform cutting, treading and joining of piping components
- Perform hydrostatic and pneumatic testing
- Remove, troubleshoot and install bearings and couplings
- Identify components and functions of high and low pressure steam systems

- Lay out and install baseplates and soleplates with proper alignment methods
- Troubleshoot and repair equipment such as gearboxes and pumps

## Written Assessment Contents:

Module Number	Module Name	Number of questions
00101-04	Basic Safety	4
00106-04	Basic Rigging	4
32102-07	Tools of the Trade	4
32104-07	Oxyfuel Cutting	4
32106-07	Craft-Related Mathematics	4
32107-07	Construction Drawings	4
32108-07	Pumps and Drivers	4
32109-07	Valves	4
32111-07	Material Handling and Hand Rigging	4
32112-07	Mobile and Support Equipment	4
32201-08	Basic Layout	4
32204-08	Introduction to Ferrous Metal Piping Practices	4
32205-08	Identifying, Installing and Maintaining Valves	4
32206-08	Hydrostatic & Pneumatic Testing	4
32207-08	Introduction to Bearings	4
32208-08	Low-Pressure Steam Systems	4
32209-08	High Pressure Steam Systems and Auxiliaries	4
32210-08	Distillation Towers and Vessels	4
32301-08	Advanced Trade Math	4
32302-08	Precision Measuring Tools	4
32303-08	Installing Bearings	4
32304-08	Installing Couplings	4
32305-08	Setting Baseplates and Pre-alignment	4
32306-08	Conventional Alignment	4
32307-08	Installing Belt and Chain Drives	4
32308-08	Installing Mechanical Seals	4
32402-09	Advanced Blueprint Reading	4
32403-09	Compressors and Pneumatic Systems	4
32404-09	Reverse Alignment	4
32407-09	Troubleshooting and Repairing Pumps	4
32408-09	Troubleshooting and Repairing Gearboxes	4
<b>Total Number of Questions</b>		<b>124</b>

*The cut score for this assessment is 75.*

*A Performance Verification is available.*