



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

**Power Generation Maintenance Mechanic
(PGMM52)**
Released December 2011

Overview

This written assessment is a three-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 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 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 ProvTM, 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. 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 Power Generation Maintenance Mechanic must be able to safely use hand and power tools; work safely in accordance with regulatory and industry standards; perform advanced rigging and mathematical calculations; interpret construction drawings, identify, inspect, troubleshoot, maintain and replace pumps, drivers, compressors, pulverizers, gearboxes, valves, and other major mechanical equipment; prepare and assemble piping components to include threading, cutting, and joining; remove, install and troubleshoot bearings, mechanical seals, and couplings and perform machinery alignments; troubleshoot and repair equipment; and have a basic working knowledge of turbines, hydraulics, pneumatics, and motor-operated valves.

Written Assessment Contents:

Module Number	Module Name	Number of Questions
00101-09	Basic Safety	4
00106-09	Basic Rigging	4
32103-07	Fasteners and Anchors	4
32104-07	Oxyfuel Cutting	4
32105-07	Gaskets and Packing	4
32107-07	Construction Drawings	4
32108-07	Pumps and Drivers	4
32109-07	Valves	4
32112-07	Mobile and Support Equipment	4
32113-07	Lubrication	4
32302-08	Precision Measuring Tools	4
32207-08	Intro to Bearings	4
32303-08	Installing Bearings	4
32304-08	Installing Couplings	4
32308-08	Installing Mechanical Seals	4
32306-08	Conventional Alignment	4
32404-09	Reverse Alignment	4
32307-08	Installing Belt and Chain Drives	4
32204-07	Intro to Ferrous Metal Piping Practices	4
32205-07	Identify, Install and Maintain Valves	4
32208-07	Low-Pressure Steam Systems	4
32209-07	High-Pressure Steam Systems and Auxiliaries	4
32211-07	Heaters, Furnaces, Heat Exchangers, Cooling Towers, and Fin Fans	4
15401-08	Conveyors	4
15409-08	Basic Hydraulic Systems	4
15410-08	Troubleshooting and Repairing Hydraulic Systems	4
52401-10	Vibration and Balancing	4
52402-10	Fuel Preparation and Delivery Equipment	4
32403-09	Compressors and Pneumatic Systems	4
32407-09	Troubleshooting and Repairing Pumps	4
32408-09	Troubleshooting and Repairing Gearboxes	4
15505-09	Turbines	4
15506-09	Maintaining and Repairing Turbines	4
Total number of Questions		132

*The cut score for this assessment is 75.
A Performance Verification is available.*