



## LEVEL EXAM SPECIFICATIONS

### PIPELINE MAINTENANCE AND MECHANICAL, 3<sup>rd</sup> Edition, Level 1

#### **NCCER Overview**

NCCER is a not-for-profit 501(c)(3) education foundation created in 1996 as The National Center for Construction Education and Research. It was developed with the support of more than 125 construction CEOs and various association and academic leaders who united to revolutionize training for the construction industry. Sharing the common goal of developing a safe and productive workforce, these companies created a standardized training and credentialing program for the industry.

NCCER develops standardized construction and maintenance curriculum and assessments with portable credentials. These credentials are tracked through NCCER's Registry System that allows organizations and companies to track the qualifications of their craft professionals and/or check the qualifications of possible new hires. NCCER's Registry System also assists craft professionals by maintaining their records in a secure database.

NCCER is headquartered in Alachua, Florida, and is affiliated with the University of Florida's M.E. Rinker, Sr. School of Construction Management.

#### **Pipeline Maintenance and Mechanical – Overview**

Provides basic, intermediate and advanced training to safely perform general and mechanical maintenance on pipelines. Level 1 is split into two volumes, and includes key content such as blueprint reading, tank repair, pneumatic and hydraulic systems, pumps, compressors, metering devices, and troubleshooting.

#### **Module Exam Guidelines**

- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed
- The minimum passing score is 70

#### **Study Materials**

All NCCER written module exams 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).

#### **Credentials**

NCCER will send appropriate credentials to the location designated by the accredited training sponsor for successful completions.

#### **Registry**

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

<b>Table of Contents:</b>	<b>Recommended Training Hours</b>	<b>Number of Exam Items</b>	<b>Performance Task Required?</b>
<b>Volume 1:</b>			
63103-02 - Pipeline Mechanic Hand and Power Tools	10	20	Yes
63104-02 - Piping and Mechanical Blueprint Reading	15	15	Yes
63105-02 - Tubing, Threaded Pipe, and Hoses	30	25	Yes
63106-02 – Fasteners	10	15	Yes
63108-02 – Identify Types of Valve Actuators/Operators	15	15	Yes
63109-02 - Installing Seals and Gaskets	10	15	Yes
63201-02 - Introduction to Pneumatic Systems	10	20	Yes
63202-02 - Introduction to Hydraulic Systems	10	20	Yes
63203-02 - Specialty and Precision Tools	15	20	Yes
63206-02 - Introduction to Metering Devices and Provers	10	15	Yes
63207-02 - Introduction to Pumps	10	15	Yes
63208-02 - Introduction to Gas Compressors	10	15	Yes
62301-02 - General Maintenance and Winterizing Pipeline Equipment	7.5	15	No
<b>Total Number of Training Hours &amp; Module Exam Questions (Volume 1):</b>	<b>162.5</b>	<b>225</b>	

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<b>Table of Contents:</b>	<b>Recommended Training Hours</b>	<b>Number of Exam Items</b>	<b>Performance Task Required?</b>
<b>Volume 2:</b>			
62307-02 - Tank Repair	40	30	Yes
63209-02 - Install and Maintain Bearings	15	25	Yes
63210-02 - Install Mechanical Seals	20	20	Yes
63211-02 - Maintain and Repair Drivers	15	20	Yes
63301-02 - Install Rotating Equipment	25	20	Yes
63302-02 - Unit Alignment	40	30	Yes
63303-02 - Vibration Analysis	5	15	Yes
63304-02 - Maintain, Troubleshoot, and Repair Pumps	10	15	Yes
63305-02 - Maintain, Troubleshoot, and Repair Gas Compressors	15	15	Yes
63309-02 - Maintain, Troubleshoot, and Repair Metering Devices and Provers	20	20	Yes
<b>Total Number of Training Hours &amp; Module Exam Questions (Volume 2):</b>	<b>205</b>	<b>210</b>	