

Propane & Natural Gas: Tank Setter & Outside Piping

This course provides training on how to select and install containers, prevent corrosion, size and install regulators and meters, and select and install outdoor piping and tubing. It also addresses the different system tests required for vapor distribution systems and appliances as well as the general knowledge that a propane employee would need to use and operate a dispenser. This course encompasses CETP 4.1, 4.2 and 5.1. Successful completion of this course and exams will help students achieve the State of Maine Propane & Natural Gas Technician - Tank Setter & Outside Piping authority. This course is updated to the NFPA 54, 2012 and NFPA 58, 2014 editions.

Audience

This course is designed for those who design and install vapor distribution systems.

Course Code	Course Name	Contact Hours
PNG1 050	<u>Propane & Natural Gas: Tank Setter & Outside Piping</u>	64

Course Description

PNG1 050 Propane & Natural Gas: Tank Setter & Outside Piping

CETP Section 4.1 “Designing and Installing Exterior Vapor Distribution Systems” focuses on designing and installing the exterior portion of a vapor distribution system for both residential and small commercial markets. This course addresses how to select and install containers, prevent corrosion, size and install regulators and meters, and select and install outdoor piping and tubing.

The topics covered are:

- Designing vapor systems; container and lines
- Designing vapor distribution systems; regulators and meters
- Preparing system components for transport
- Installing containers
- How to analyze and prevent corrosion
- Installing regulators and meters
- Other installations
- System tests

CETP Section 4.2 “Placing Vapor Distribution Systems and Appliances into Operation” focuses primarily on the different system tests and checks required when installing new piping, regulators and appliances or restoring service to an existing vapor distribution; validating the container, piping, and regulator; how and when to make the final connections; how to purge the system of air, appliance controls and safety devices; and how to adjust the burner.

The topics covered are:

- Vapor distribution system tests
- Validating vapor distribution systems
- Identifying venting requirements and characteristics
- Validating combustion air
- Leak Check Procedures
- Purging air from a piping system
- Placing appliances into operation
- Appliance controls and safety devices
- Spillage test
- Identifying burning characteristics of propane

CETP Section 5.1 “Designing & Installing Dispenser Transfer Systems” is primarily designed to train employees who use and operate a dispenser. The course includes information on dispenser tank valves, fittings and locations; and installing, start up and shut down procedures of a dispenser transfer systems.

The topics covered are:

- Dispenser application operating requirements and proper location
- Types of containers
- Dispenser tank size and orientation
- Dispenser component selection
- Installation requirements
- Provisions for vertical tanks
- Electrical supply specifications

Prerequisites: PNG1 010

Required Materials: CETP 4.1, 4.2 & 5.1 Textbooks; NFPA 54, 2012 edition; NFPA 58, 2014 edition.

Course fee includes exam fee. Course fee does not include books.