



Course Name	Valve Maintenance and Piping System Protection
Credit Hours	3.5 Hours
Course Description	This course covers maintenance and operation of gate, globe, ball, plug, check, and special-purpose valves. Details actuators and various accessories. Explains valve selection based on application. Describes methods of protecting piping systems. This course has no prerequisites.
Course Objectives	<p>After completing this course, the licensee should be able to:</p> <ul style="list-style-type: none">• Discuss the factors that affect the selection of valve materials.• Describe the various methods of connecting valves to piping.• Identify the various types of common valves and the operating characteristics of each.• Explain general maintenance and repair procedures for different types of valves.• Identify several types of special valves and the operating characteristics of each.• Discuss the installation, maintenance, and repair of special valves.• Explain the function and operation of a valve actuator• Identify various types of valve actuators and describe the installation, maintenance, and repair of each.• Discuss the operating characteristics of various accessories, including gauges, meters, accumulators, and air receivers.• Name the five major uses of valves in piping systems and identify the types of valves best suited for each.• Identify and explain the factors that determine the selection of a valve for a given application.• Identify various valve markings and symbols.• Describe several types of valve-to-pipe connections.• Discuss the selection and proper use of tools in valve installations.• Explain the importance of the correct installation of valves in well-chosen locations.• Describe the methods by which heat transfer occurs.• Discuss the methods of tracing process lines.

- Explain the various methods of protecting piping systems from heat, cold, and corrosion.
- Discuss the installation, inspection, and maintenance of insulation and other forms of piping system protection.

Course Timed Syllabus

Attached

Method of Presentation

This online course uses instructor-led video, animation, text, and images. Multiple choice questions are used to test how well the student understands the material between each section. Each answer choice has a response which tells the student whether the selected answer is correct or not.

Schedule and Location

This course may be taken at any time at www.aypotech.com. The student may sign in and out of the course as many times as needed to complete the course.

Attendance Verification

Licensees can only access the training course using a secure username and password, linked to their unique email address.

Method of Evaluation

The licensee must complete all multiple-choice questions between sections correctly to get credit for the course. If their first response is incorrect, students will have to try again until they choose the correct answer. Question choices are randomized, so each participant will have a unique testing experience.

The course is also timed; participants will not get credit until they spend at least 210 active minutes in the course.

After successful completion of the course, the licensee is required to complete and submit a questionnaire in order to access their certificate of completion.

Online Review Access

To review this course, go to www.aypotech.com and sign into the learning system using the login information below.

Username: ORWtester

Password: ORWtester

Instructor(s)

Jerry Durham (resume attached)

Cost

\$35.00