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**Course Name**

# Valve Maintenance and Piping System Protection

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**Sector Name**

Mechanical Engineering

**Document Type**

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## Valve Maintenance and Piping System Protection

### Course Introduction

This training course is designed to provide participants with the essential concepts of valve maintenance and piping system protection. This course covers topics such as maintenance and operation of gate, globe, ball, plug, check, and special-purpose valves, actuators, and various accessories. Participants will explore valve selection based on application and the methods of protecting piping systems.

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## Valve Maintenance and Piping System Protection

### Target Audience

- ✓ Maintenance & Reliability Engineers – Ensuring valve and piping system integrity.
- ✓ Piping & Mechanical Engineers – Designing and maintaining safe flow systems.
- ✓ Plant Operators & Technicians – Conducting inspections and troubleshooting.
- ✓ Asset & Corrosion Management Specialists – Preventing failures and prolonging system life.

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## Valve Maintenance and Piping System Protection

### Learning Objectives

- ✓ Gain a comprehensive understanding of the general maintenance and repair procedures for different types of valves.
- ✓ Enumerate the several types of special valves and the operating characteristics of each.
- ✓ Discuss the installation, maintenance, and repair of special valves.
- ✓ Understand the function and operation of a valve actuator
- ✓ Recognize the various types of valve actuators and describe the installation, maintenance, and repair of each.
- ✓ Learn the operating characteristics of various accessories, including gauges, meters, accumulators, and air receivers
- ✓ Identify the various types of common valves and the operating characteristics of each.
- ✓ Determine the factors that control the selection of a valve for a given application.
- ✓ Understand the selection and proper use of tools in valve installations.
- ✓ Identify the methods of tracing process lines.
- ✓ Explain the various methods of protecting piping systems from heat, cold, and corrosion.
- ✓ Conduct installation, inspection, and maintenance of insulation and other forms of piping system protection.

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## Valve Maintenance and Piping System Protection

### Course Outline

#### ✓ 01 DAY ONE

##### **Valve Maintenance**

- ✓ Threaded
- ✓ Welded
- ✓ Brazed and flanged connections
- ✓ Installing and repairing the gate, globe, angle, ball, and plug
- ✓ Check valves

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## Valve Maintenance and Piping System Protection

### Course Outline

#### ✓ **02 DAY TWO**

##### **Special Valves**

- ✓ Installation and repair of the butterfly
- ✓ Diaphragm
- ✓ Pop safety
- ✓ Relief
- ✓ Pressure-reducing
- ✓ Pressure-regulating
- ✓ Quick-opening valves

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## Valve Maintenance and Piping System Protection

### Course Outline

#### ✓ **03 DAY THREE**

##### **Actuators and Accessories**

- ✓ Actuator installation
- ✓ Maintenance and repair
- ✓ Bourdon tube
- ✓ Bimetallic and bellows gauges
- ✓ Flowmeters
- ✓ Rotating unions
- ✓ Accumulators

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## Valve Maintenance and Piping System Protection

### Course Outline

#### ✓ **04 DAY FOUR**

##### **Valve Selection**

- ✓ Valve applications, materials, and identification
- ✓ Soldered, threaded, and flanged valve connections
- ✓ Tool selection
- ✓ Valve positioning

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## Valve Maintenance and Piping System Protection

### Course Outline

#### ✓ **05 DAY FIVE**

##### **Piping System Protection**

- ✓ Installing and maintaining insulation
- ✓ Steam tracers
- ✓ Protection from freezing and corrosives
- ✓ Active and passive protection
- ✓ Inspection
- ✓ Supports

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## Valve Maintenance and Piping System Protection

### Confirmed Sessions

| FROM           | TO             | DURATION | FEES       | LOCATION        |
|----------------|----------------|----------|------------|-----------------|
| March 14, 2027 | March 18, 2027 | 5 days   | 4250.00 \$ | KSA , Riyadh    |
| May 10, 2027   | May 14, 2027   | 5 days   | 4250.00 \$ | UAE , Dubai     |
| Sept. 7, 2026  | Sept. 11, 2026 | 5 days   | 4250.00 \$ | UAE , Dubai     |
| June 28, 2027  | July 2, 2027   | 5 days   | 4250.00 \$ | UAE , Abu Dhabi |

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