



Consulting and Training | Reach New Heights

Course Name

Valve Technology

Sector Name

Mechanical Engineering

Document Type

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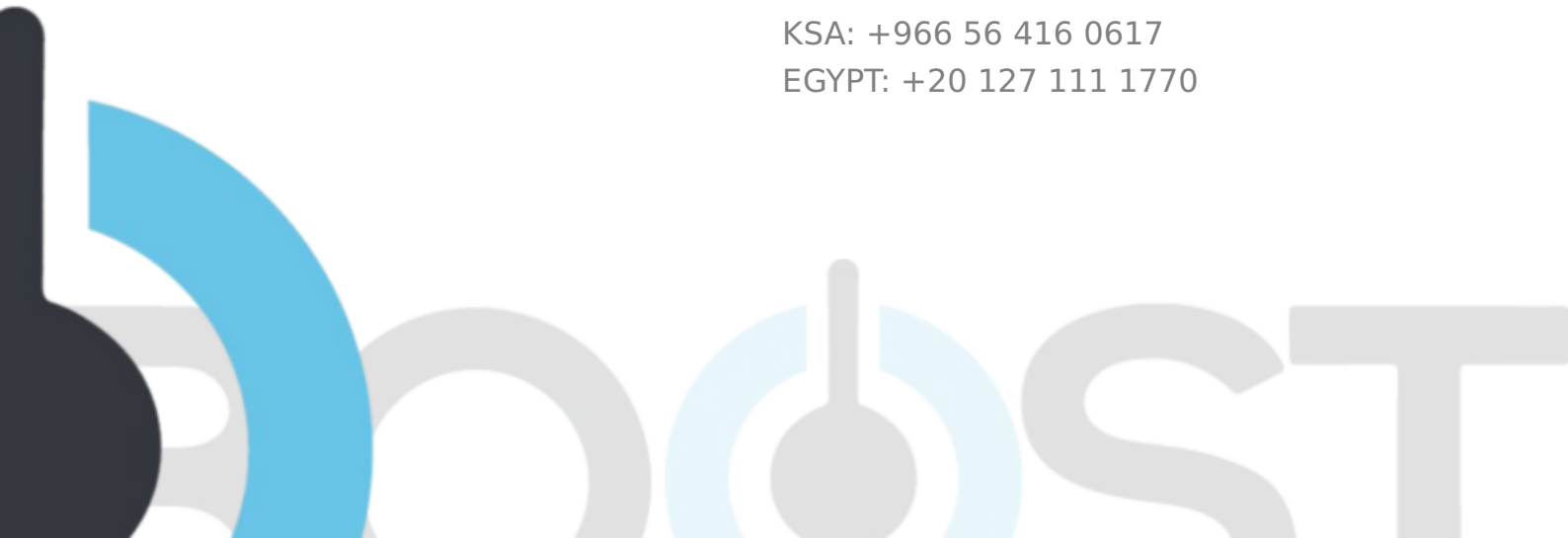
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Valve Technology

Course Introduction

The course is designed for participants to understand the principles of the Types, function, Specification, and classification of valves. Then cover the valves maintenance, troubleshooting, and repair. This course presents a practical approach to the function, servicing, installation, repair, overhaul, upgrading, and modifications of these components.

Valves usually appear to be simple in form and operation, such as those of a manual Off-On Valve, Check Valve, or the Fixed Valve type, such as an Orifice, Blind, etc.

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Valve Technology

Target Audience

- ✓ Automotive Engineer
- ✓ Boiler Engineer
- ✓ Ceramics Engineer
- ✓ Equipment Engineer
- ✓ High-Pressure Engineer
- ✓ Marine Engineer
- ✓ Mechanical Design Engineer
- ✓ Mechanical Engineer
- ✓ Naval Architect
- ✓ Pipeline Engineer
- ✓ Power Engineer
- ✓ Rotating Equipment Engineer
- ✓ Senior Mechanical Engineer
- ✓ Turbine Engineer
- ✓ Validation Engineer

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Learning Objectives

- ✓ Types of Valves.
- ✓ Valve materials.
- ✓ Valve components.
- ✓ Valve testing and inspection.
- ✓ Valve failure.
- ✓ Safety valve component and design.
- ✓ Valve maintenance.
- ✓ Case studies. and troubleshooting.
- ✓ Group Discussions.
- ✓ Course summary and evaluation

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Course Outline

✓ 01 DAY ONE

Valves Technology

- ✓ Types of Valves
- ✓ Valves characteristics
- ✓ Sealing performance
- ✓ Leakage Criterion
- ✓ Leakage Classifications
- ✓ Sealing Mechanisms
- ✓ Valve stem seals
- ✓ Flow characteristics
- ✓ Flow through valves
- ✓ Valve flow characteristics

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Course Outline

✓ 02 DAY TWO

Manual Valves

- ✓ Functions of manual valves
- ✓ Methods of regulation
- ✓ Valve Types:
- ✓ Stopping/starting valves
- ✓ Control valves
- ✓ Valve end connections
- ✓ Valves rating
- ✓ Valves seating
- ✓ Types of manual valves
- ✓ Gate Valves
- ✓ Plug Valves
- ✓ Ball Valves
- ✓ Butterfly Valves
- ✓ Pinch Valves
- ✓ Diaphragm Valves
- ✓ Chuck valve

Check Valves

- ✓ Applications
- ✓ Types of Check Valves

- ✓ Lift check valves
- ✓ Swing check valves
- ✓ Tilting-disc check valves
- ✓ Diaphragm check valves
- ✓ Check Valves Operation
- ✓ Selection of Check Valves

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Course Outline

✓ **03 DAY THREE**

Relief and Safety Valves

- ✓ Relief Valve Types
- ✓ Pressure-relieving devices
- ✓ Automatically operated valves
- ✓ Direct-acting & piloted pressure relief valves
- ✓ Modulating, full-lift, and ordinary pressure relief valves
- ✓ Valve Loading
- ✓ Safety Valves
- ✓ Operation of Direct-acting pressure relief valves
- ✓ Relief valve problems

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Course Outline

✓ 04 DAY FOUR

Valve Problems and Troubleshooting

- ✓ High Pressure Drop
- ✓ Pressure Recovery Characteristics
- ✓ Cavitation in Valves
- ✓ Incipient and choked cavitation
- ✓ Flow curve cavitation index
- ✓ Cavitation-elimination devices
- ✓ Flashing versus Cavitation
- ✓ Flow Choking
- ✓ High Velocities
- ✓ Water Hammer
- ✓ What causes water hammer?
- ✓ Water Hammer Calculations
- ✓ Solutions for water hammer
- ✓ Surge Protection
- ✓ Check valve slamming
- ✓ Noise problems
- ✓ Clean air standards
- ✓ Life loading
- ✓ Packing for fugitive-emission control
- ✓ Troubleshooting the Control Valves

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Course Outline

✓ 05 DAY FIVE

Valve Testing & Repair Facilities

- ✓ Hydrostatic testing
- ✓ Gas testing
- ✓ Low Temperature (cryogenic) and Fugitive Emission testing
- ✓ Testing of engineering materials and Metallurgical investigations.
- ✓ On-line test

Area of Testing:

- ✓ Mechanical
- ✓ Electrical
- ✓ Environmental
- ✓ Fire
- ✓ Dimensional Measurement
- ✓ Materials
- ✓ Noise and vibration.

Valve Technology

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 8, 2026	June 12, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Dec. 28, 2026	Jan. 1, 2027	5 days	4250.00 \$	UAE , Dubai
Sept. 7, 2026	Sept. 11, 2026	5 days	4950.00 \$	Spain , Barcelona
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Riyadh

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