



# The **ACADEMY**

Quality · Innovation · Reliability · Sustainability · Customer Service

## VALVE TRAINING COURSE - VALVE FUNDAMENTALS **PROGRAMME**

**DAY ONE**

08:00-08:30	<b>REGISTRATION</b>
08:30-09:30	<p><b>MODULE 1 - INTRODUCTION TO VALVES</b> Objectives: To name different types of valves To describe basic functions of valves To identify different types of valves To identify units of measurement associated with valves and their functions</p>
09:30-10:00	Module 1 assessment
10:00-10:15	Tea break
10:15-11:15	<p><b>MODULE 2 - REGULATIONS AND STANDARDS</b> Objectives: Why standards and specifications are used To identify and name standards applicable to valves</p>
11:15-11:30	Module 2 assessment
11:30-11:40	Break
11:40-12:30	<p><b>MODULE 3 - VALVE CONSTRUCTION MATERIALS</b> Objectives: Become familiar with various materials used in the manufacture of valves - Body and Trim Materials - Seating Materials - Coating and Hard facing materials Understand pressure ratings.</p>
12:30-12:50	Module 3 assessment
12:50-13:30	Lunch Break
13:30-15:00	<p><b>MODULE 4 A - BASIC VALVE TYPES</b> Objectives: Describe basic valve types, comparing features, advantages, application - Linear - Rotary</p> <p>To apply this information in selecting the right valve for the application</p>
15:00-15:15	Tea Break
15:15-15:45	Module 4 A assessment

# DAY TWO

08:00-09:00	<b>MODULE 4 B - BASIC VALVE TYPES</b> - Objectives: Describe basic valve types, comparing features, advantages and application - Quarter Turn - Control valves - Safety Valves
09:00-09:30	Module 4 B assessment
09:30-10:15	<b>MODULE 5 - VALVE END CONNECTIONS</b> - Objectives: Describe different types of end connections State different types of gaskets Identify flanges by measurement (Practical)
10:15-10:30	Tea Break
10:30-10:45	Module 5 assessment
10:45-11:45	<b>MODULE 6 - LEVERS, GEARBOXES AND ACTUATORS</b> - Objectives: Describe different ways in which a valve may be manually operated - Lever - Gearbox and hand-wheel  Describe various types of actuators and accessories - Pneumatic - Hydraulic - Electric Understand factors influencing the sizing of actuators
11:45-12:05	Module 6 assessment
12:05-13:00	<b>MODULE 7 - TESTING OF VALVES AND QUALITY ASSURANCE</b> - Objectives: Describe the test procedure for valve bodies and seats Explain traceability
13:00-13:40	Lunch Break
13:40-14:00	Module 7 assessment
14:00-14:45	<b>MODULE 8 - INSTALLATION, OPERATION AND MAINTENANCE</b> - Objectives: Describe general valve installation activities
14:45-15:00	Module 8 assessment
15:00-15:15	Tea Break
15:15-15:50	<b>MODULE 9 - MANUFACTURING METHODS</b> - Objectives: Describe common processes used in production of industrial valves Discuss reasons for long lead times in valve manufacture
15:50-16:00	Module 9 assessment
16:00-16:30	<b>MODULE 10 - RECONDITIONING OF VALVES</b> - Objectives: Describe general valve reconditioning activities
16:30-16:40	Module 10 assessment
16:40-16:45	Summary - end of course

## CONTACT US FOR COURSE INFORMATION AND ENROLMENT

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ALL ABOUT VALVES  
ISO 9001:2015 / OSHAS 18001:2007

