

# The ACADEMY

QUALITY | INNOVATION | RELIABILITY | SUSTAINABILITY | CUSTOMER SERVICE

## VALVE FUNDAMENTALS

### VALVE TRAINING COURSE - VALVE FUNDAMENTALS

## PROGRAMME

08:00-08:30

REGISTRATION

08:30-09:30

#### MODULE 1 - INTRODUCTION TO VALVES

Basic functions of valves

To identify different types of valves

To identify units of measurement associated with valves and their functions

09:30-10:00

Module 1 assessment

10:00-10:15

Tea break

10:15-11:15

#### MODULE 2 - REGULATIONS AND STANDARDS

Why standards and specifications are used

To Identify and name standards applicable to valves

11:15-11:30

Module 2 assessment

11:30-11:40

Break

11:40-12:30

#### MODULE 3 - VALVE CONSTRUCTION MATERIALS

Become familiar with various materials used in the manufacture of valves

Understand pressure ratings.

12:30-12:50

Module 3 assessment

12:50-13:30

Lunch Break

13:30-15:00

#### MODULE 4 A - BASIC VALVE TYPES

Describe basic valve types, comparing features, advantages, application

- Linear

- Rotary

To apply this information in selecting the right valve for the application

15:00-15:15

Tea Break

15:15-15:45

Module 4 A assessment

DAY ONE

08:00-09:00	<b>MODULE 4 B - BASIC VALVE TYPES</b> Describe basic valve types, comparing features, advantages and application
09:00-09:30	Module 4 B assessment
09:30-10:15	<b>MODULE 5 - VALVE END CONNECTIONS</b> 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> Describe different ways in which a valve may be manually operated Describe various types of actuators and accessories 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> 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> 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> 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> Describe general valve reconditioning activities
16:30-16:40	Module 10 assessment
16:40-16:45	Summary - end of course

**REGISTER TODAY!**

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