



## Practical Pump & Valve Technology

Date	Venues	(\$)Fees	Book your seat
07 Dec -11 Dec 2025	Cairo	2900	<a href="#">Register Now</a>

### Course Overview

The Training will introduce delegates to the different types of pumps and valves and their associated terminology. Centrifugal and positive-displacement pumps, packing, mechanical seals and sealing systems, bearings and couplings will all be discussed. Valves for isolation and valves for control will be addressed.

### Course Objective

- Have an understanding of the different types of pumps and their associated terminology
- Have an understanding of Centrifugal and positive displacement pumps, packing, mechanical seals and sealing systems, bearings and couplings
- Have an understanding of different parameters affecting the operation of valves
- Have the ability to select the right valve for the particular application and to perform the necessary calculation for valve sizing
- Have the ability to perform troubleshooting of systems involving valves

### Who Should Attend?

- Technicians
- Supervisors
- Team Leaders

### Course Outline

#### Pumping Systems

#### Pump Types and Terminology

#### Pump Performance

#### Friction in Valves, Piping & Fittings

#### Cavitation in pumps and valves

#### Positive Displacement Pumps

#### Reciprocating Pumps

**Reciprocating Pump Valves**

**Rotary Pumps – scroll and gear types**

**Failure Mechanisms – identification and monitoring**

**Centrifugal Pumps**

**Pump Components**

**Achieving Pump Reliability**

**Sealing Systems**

**Bearings – failure modes and how to extend life**

**Lubrication**

**Plain Bearings**

**Valves Technology**

**Types of Valves**

**Valves Troubleshooting & Maintenance**

Training Methodology

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation



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