



Practical Pump & Valve Technology

Date	Venues	(\$Fees	Book your seat
04 Feb -08 Feb 2024	Cairo	2900	Register Now

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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