

Practical Pump & Valve Technology

TM194

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

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

Who Should Attend:

- -Technicians
- -Supervisors
- -Team Leaders

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Training Language: EN / AR

Training Methodology:

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

