

Valves : Principles , Operation & Designs

This course is designed to provide you with a complete understanding of construction details and functioning of valves. This understanding is a prerequisite for successful operation of your plant and piping system.

The course includes extensive graphics, 3D animations and cross-sectional views to give you a virtual practical exposure on valves.

You will learn

- Discover the major types of valves used in the process industry
- Learn their components, their function & their operation
- Have the opportunity to dismantle many valves and assemble them using 3D models, cross-sectional views and 3D animations
- You will learn how control valves are used to regulate the flow of a fluid. Concepts such as head loss, pressure drop, valve coefficient "Cv", flow resistance, valve curves and cavitation will be presented
- Finally, the course introduces you to valve symbols and representation in engineering drawings such as Piping & Instrumentation Diagrams (P&ID's). Standards and conventions that apply to valves and their accessories will be discussed in details. You will learn how valve status and failure modes are depicted in engineering drawings.

This course for

- Petroleum Engineers
- Design Engineers
- Piping Engineers
- Plant Engineers
- Facility Managers
- Maintenance Technicians
- Mechanics
- Plant Operators



Course Duration

5 Days