



شركة ميرك العربية السعودية
MEIRC Saudi Arabia

Control Valves

Duration 5 Days

Course Description

Control valves are imperative elements in any system where fluid flow must be monitored and manipulated. A complete control valve is made of the valve itself, an actuator, and, if necessary, a valve control device. The actuator is what provides the required force to cause the closing part of the valve to move and the valve control devices keep the valves in the proper operating conditions; they can ensure appropriate position, interpret signals, and manipulate responses. This course provides an overview of control valve with emphasis on the sizing and selection. Selection of the proper valve involves a thorough knowledge of the process for which it will be used.

Course Objectives

- supply the participants with the new developed techniques
- study the control valve characteristics
- understanding the control valve types
- understanding practice the sound maintenance activities

Who Should Attend?

- Engineers
- Operators
- Technicians
- Any person needing an understanding of control valves

Program Schedule

DAY 1

- Introduction to valves and valves technology
- Valve types (Globe, Gate, Butterfl, Ball, Check, Diaphragm)
- Valve main components
- Valve construction details

DAY 2

- Control valve type
- Methods of selection
- Valve characteristics and relation to valve travel
- Control valve categories
- Control valve selection

DAY 3

- PCV main criteria
- TCV main criteria
- FCV main criteria
- Main features and methods of connections
- Comparison between the different types of control valves



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DAY 4

- Positioners in a control valve
- Actuators for a control valve
- Relays and associated facilities
- Control valve operation mechanism
- Valve travel and quick valve types
- Equal percentage control valves
- Linear control valves

DAY 5

- Maintenance strategies
- Control valve controls and range of control and operation
- ATC Valves
- ATO valves
- Trouble shootings
- Case studies
- PM vs CM