

(6) Control Valve Maintenance and Troubleshooting

WHO SHOULD ATTEND

This Intensive five-day short course covers valves/sizing and selection Maintenance & Troubleshooting both theoretical and practical. You will gain a practical understanding of control valves, actuators, and positioner designs and their applications. The course also provides methods that can be used to identify specific valve problems and arrive at acceptable solutions within engineering tolerance.

COURSE OBJECTIVES

From this training, participant will be able to:

1. Compare various types of final control elements
2. Understand a typical valve operation in a control loop
3. Differentiate between various types of valves and the benefits of each
4. Compare rising stem to rotary style valves
5. Analyze a control system to determine control valve needs
6. Use ISA standards for control valve specification and selection
7. Size valves for any flow condition likely to be found in a process plant
8. Evaluate and select actuators for specific applications
9. Specify appropriate auxiliaries including positioners and I/P transducers
10. Design control valve installations that are safe and trouble-free

CONTENT

Basic Valve Types. Actuators. Comparison. Valve Performance. Flashing/Cavitation & Noise Installation. Valve Sizing. Specification and Selection. Maintenance and Troubleshooting Considerations. Smart Valves. Test valves to evaluate performance factors. Size valves manually and with software Specify valves, actuators, and auxiliaries for specific applications. Evaluate operation of valves with pneumatic actuators and positioners. Smart valve/positioner operation demonstration

INTENDED FOR

Instrumentation and Control Engineers & Technicians, Mechanical Engineers & Technicians, Projects Engineers, Operation Engineers, Process and Utility Supervisors, and Technical Supervisory personnel involved in Sizing, Selecting, and Applying Process Control Valves. No specific prerequisite training or experience required for registration.