

Principles of Air-Operated Valves

This course provides instruction on the various types of Air-Operated Control Valves (AOVs) most commonly used in the power generation/energy industry. The course is structured around an examination of the major components of an actuator, positioning system accessories, and controllers/transmitters. The criteria for selecting, sizing and applying an actuator are discussed in detail. Basic pneumatic principles are reviewed and the various types of positioning systems are also covered.



TERMINAL OBJECTIVES:

Each student shall be required to pass a written test with a minimum score of 80% in order to successfully complete this course. Upon successful course completion, the student shall possess the knowledge to:

- identify basic types of air-operated valves
- describe the operation of pneumatic actuators and positioning systems
- state the major factors to be considered in the selection and application of the valves, actuators and positioning systems

ENABLING OBJECTIVES:

At the conclusion of this course, the student shall have an increased understanding of:

- the major components of the process control loop (closed loop/open loop) and be able to describe the significant functions of each component
- the construction, characteristics and use of globe, butterfly, and ball valves in AOV applications
- the basic factors associated with actuator/valve sizing and selection
- the differences between on/off valves and control valves
- the definition of actuator benchset

SUPPLIED MATERIALS:

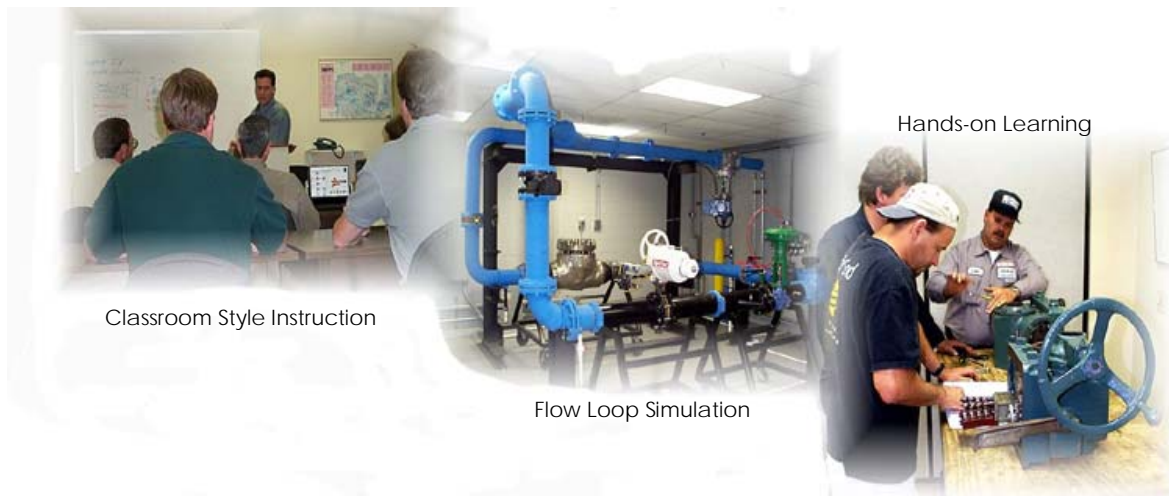
A *Training Manual* will be provided for each registered student.

In-class *Training Aides*, for courses performed at a CRANE Nuclear facility, will include all or some of the following: Various control valves and related accessories.

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Registration Guidelines

Standard Class Size:	6 Students per Instructor
Maximum Class Size:	8 Students
Course Duration:	3 Days
Prerequisite:	None
Suggested Attendees:	Plant Instrument and Control Technicians, Engineering, QC and Operations Personnel



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