

## AOV Instrument Maintenance & Repair

This course provides instruction on the proper installation, operation, and maintenance of Air-Operated-Valve (AOV) Instruments and Actuators through hands-on laboratory training, and operating experiences. Upon successful completion, the student shall be able to correctly perform maintenance on various AOV actuators and instruments commonly utilized in the Nuclear Power Industry.

### 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:

- understand and explain the basic operation and maintenance of actuators
- understand the basic operation of instruments and accessories associated with AOVs in the nuclear power industry

### ENABLING OBJECTIVES:

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

- A basic control loop
- Major components of actuators
- Operation of various actuators
- How to disassemble, assemble and troubleshoot various actuators
- Perform benchset of an actuator
- Actuator to valve coupling
- The differences between electronic and pneumatic instruments
- Calibration techniques for Electronic and Pneumatic instruments
- Tubing routing and application

### 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 AOV Actuators, Instruments & Accessories.

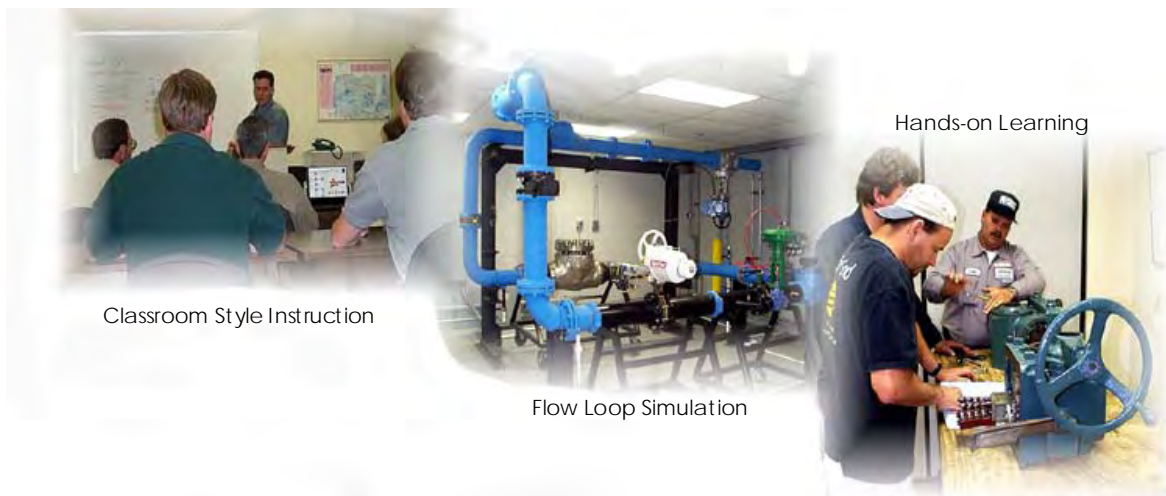


TRAINING

# AOV Instrument Maintenance & Repair

## Registration Guidelines

<b>Standard Class Size:</b>	6 Students per Instructor
<b>Maximum Class Size:</b>	8 Students
<b>Course Duration:</b>	5 Days
<b>Prerequisites:</b>	Basic knowledge of control loops, pneumatic actuators and associated instrumentation
<b>Suggested Attendees:</b>	Plant Instrument and Control Technicians, Engineering, QC and Operations Personnel



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