

Valve Maintenance & Repair

This course provides instruction on how to maintain gate, globe and check valves for optimum working condition. Included are discussions on motor-operators, air-operators, hydraulic-operators, and manual-operators. The classroom discussion and hands-on laboratory experience covers the principals of operation, disassembly, inspection, adjustment, and reassembly of gate, globe and check valves. An overview is presented on the techniques of packing removal and installation, lapping of valve seats and wedges to facilitate fit up, blue check, and in-line machining of valve components, including the use of specialty tools.



TERMINAL OBJECTIVES:

Each student is 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 successfully:

- identify and explain the design and use of gate, globe and check valves.
- perform disassembly, repair, adjustments, and reassembly of gate, globe and check valves.
- perform required preventative maintenance and repair on gate, globe and check valves.

ENABLING OBJECTIVES:

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

- valve design, construction, and function, which improves workmanship, and efficiency.
- general maintenance practices, which results in fewer maintenance related valve/actuator failures, improved valve reliability and increased valve life.
- the common errors made in valve disassembly/reassembly, which will improve troubleshooting efforts.

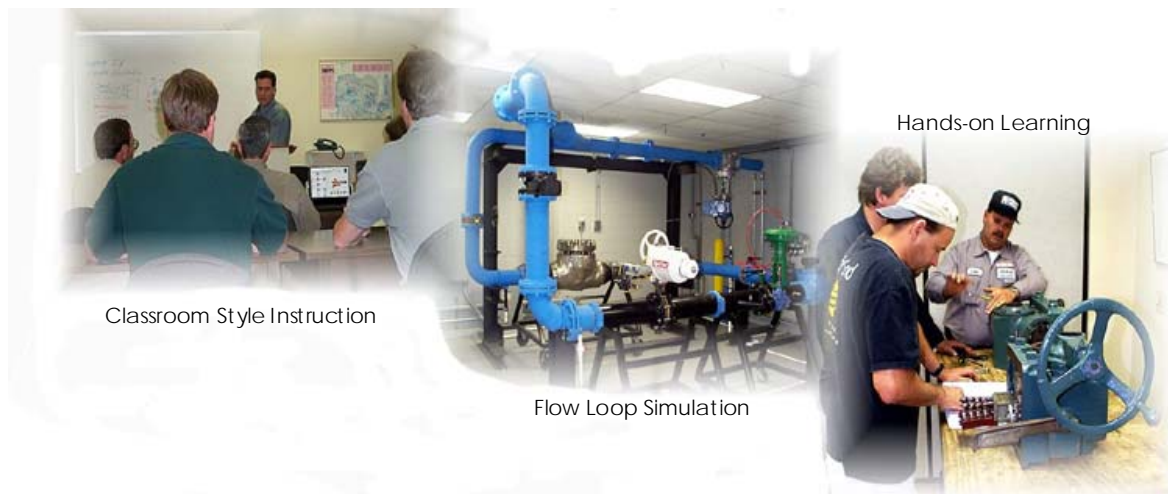
SUPPLIED MATERIALS:

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 valves (sizes and types), Portable Machining Equipment, Valve Repair Hand Tools and Various Actuators, Instruments and Accessories.

Valve Maintenance & Repair Registration Guidelines

Standard Class Size:	6 Students per Instructor
Maximum Class Size:	8 Students
Course Duration:	5 Days
Prerequisite:	None
Suggested Attendees:	Plant Mechanics, Machinists, Pipe-fitters, Mechanical Foremen, QC personnel, Engineering personnel, ISI personnel, MOV test



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N-TR-VLMNT-06/07