

Limitorque[™] Actuator Maintenance & Repair

This course provides instruction on mechanical and electrical operation of Limitorque[®] SMB, SB, SBD, and HBC actuators. Through classroom instruction and hands-on experience, this course shall provide the student with practical knowledge on the operation, refurbishment, trouble-shooting, and preventative maintenance of Limitorque[®] actuators. Instruction covers theories of operation of SMB-000 through SMB-4 and HOBC through H3BC actuators, and provides hands-on disassembly/reassemble of various SMB and HBC actuators. This course may be restructured to emphasize SM or SMA Actuators to fit specific requirements.



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 the types of Limitorque[®] actuators, as well as describe design and application differences.
- perform all required preventative maintenance on a Limitorque[®] actuator.
- perform disassembly, inspection, repair, adjustments, lubrication, and reassembly of Limitorque[®] actuator models SMB-000/00 and SMB 0 through 4.
- describe Limitorque[®] actuator maintenance updates and how they affect the installation, operation, and maintenance of Limitorque[®] actuators.
- perform effective troubleshooting of mechanical and electrical problems on malfunctioning Limitorque[®] actuators.

ENABLING OBJECTIVES:

At the conclusion of this course, the student shall possess improved knowledge of Limitorque[®] actuators to include:

- operation, disassembly/reassembly, and terminology, which improves workmanship and efficiency.
- advanced maintenance performance techniques, which results in fewer maintenance related actuator failures, improved actuator reliability, and increased actuator life.
- experience with common maintenance misconceptions, which improves troubleshooting efficiency.

SUPPLIED MATERIALS:

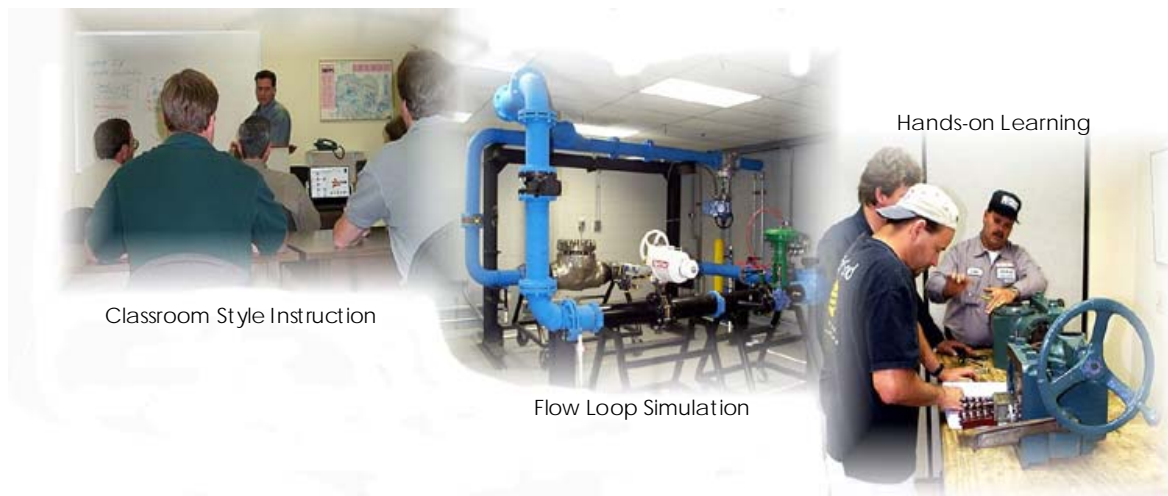
A *Training Manual* will be provided for each registered student.

In-class *Training Aides*, for courses performed at a CRANE Nuclear facility, will include all or some of the following: Various Actuators, Instruments and Accessories.

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Registration Guidelines

Standard Class Size:	6 Students per Instructor
Maximum Class Size:	8 Students
Course Duration:	5 Days
Prerequisite:	None
Suggested Attendees:	Plant Electricians, Mechanics, Electrical and Mechanical Foremen, QC personnel, Engineering personnel, and Operations personnel



CRANE NUCLEAR

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