

## MPM™ Basic Training

This course provides instruction on the use of the CRANE Nuclear Motor Power Monitor™ (MPM) diagnostic system to increase plant efficiencies in MOV testing, and reduce the cost/impact of MOV diagnostic testing on the outage schedule. Instruction will include the following topics: system, software, proper installation, operation and maintenance, plus an overview of basic valve theory and AC motor construction.



### TERMINAL OBJECTIVES:

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

- establish a test database and acquire acceptable test data to perform MPM™ MOV performance analysis.
- generate and analyze motor data, mark event points, and compare results with adjusted design basis requirements/limitations.

### ENABLING OBJECTIVES:

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

- the purpose and background of MPM™ technology.
- three-phase AC motor construction and the principals of induction motor operation.
- the concepts associated with induction motors and motor nameplate data.
- how to configure the system for acquisition, transfer and test data storage.
- how to perform analysis of test data to ensure acceptability for use.
- the selection of parameters for analysis marking event points.

### SUPPLIED MATERIALS:

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

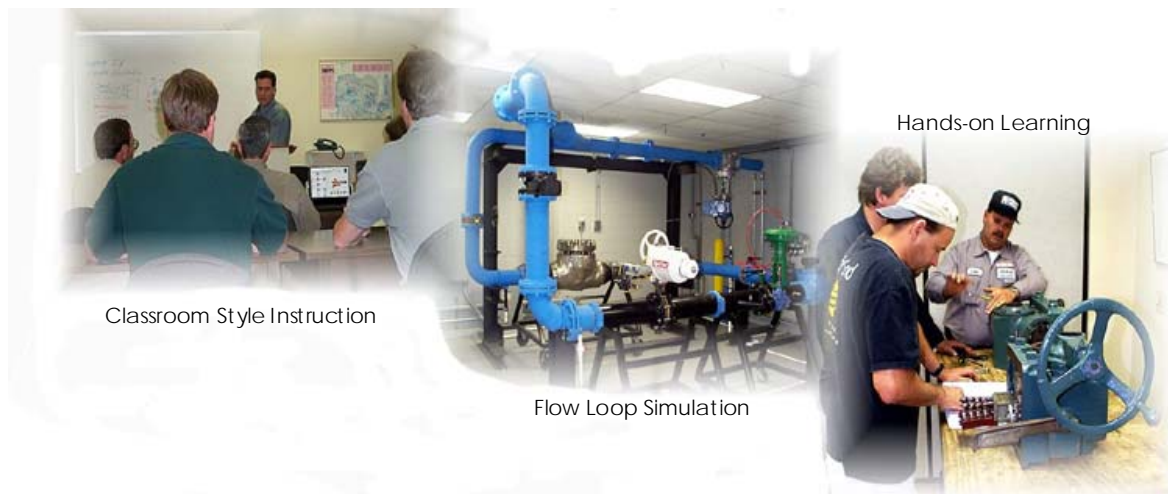
In-class *Training Aides*, for courses performed at a CRANE Nuclear facility, will include all or some of the following: CRANE Nuclear MPM Test Equipment, Various Actuators, Instruments and Accessories.

TRAINING

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### Registration Guidelines

<b>Standard Class Size:</b>	6 Students per Instructor
<b>Maximum Class Size:</b>	8 Students
<b>Course Duration:</b>	3 Days
<b>Prerequisite:</b>	A working knowledge of Limatorque® actuators
<b>Suggested Attendees:</b>	MOV cognizant Engineers, Electricians, Mechanics, QC personnel, and Operations personnel



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