

## MC<sup>2</sup> Data Acquisition & Analysis

This course provides instruction on the utilization of the CRANE Nuclear MC<sup>2</sup> data acquisition system through classroom instruction, hands-on laboratory training, and accounts of testing experience. Upon successful course completion, the student shall be able to correctly set-up and operate this equipment to perform basic data acquisition and signature analysis. Instruction will include the following topics: software, proper installation, operation, and maintenance.

### 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 successfully:

- establish a test database and acquire acceptable test data to perform torque estimations and FFT analysis.
- generate and analyze motor torque data and compare it to 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 MC<sup>2</sup> technology.
- how to establish a test database and create targets and limitations for use with the motor torque and correlated methodologies.
- how to configuring the system for acquisition; acquire, transfer and save test data.
- how to perform analysis of test data to ensure acceptability for usages.
- how to perform torque estimations, analyze motor torque data, and compare to limitations.
- how to perform analysis of baseline data, establish correlation factors and apply correlation factors to periodic verification data.
- the purpose and use of frequency domain analysis and tracking and trending.

### 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 MOV Test Equipment, Various Actuators, Instruments and Accessories.

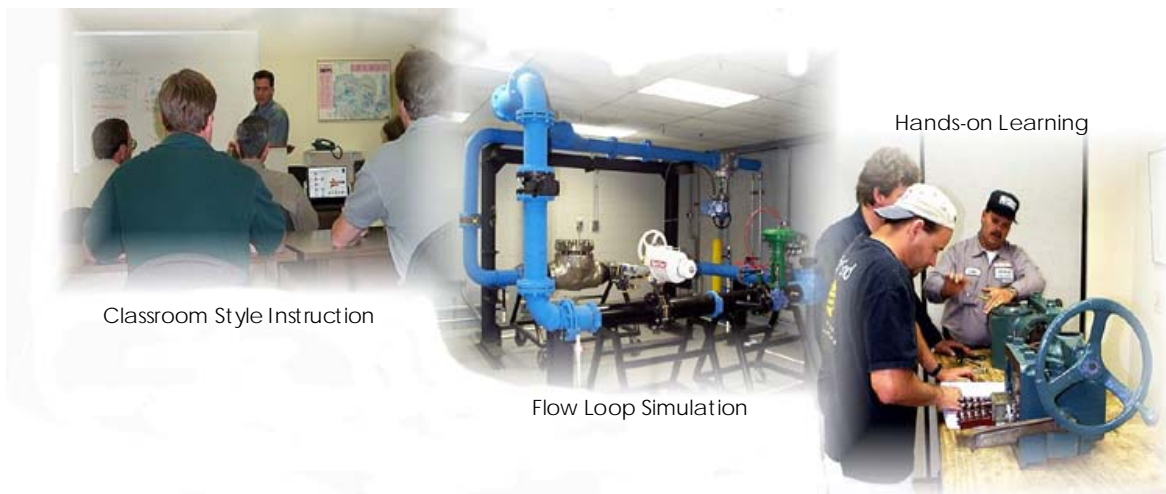
TRAINING



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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 Limitorque® actuators   |
| <b>Suggested Attendees:</b> | MOV cognizant Engineers, Electricians, Mechanics, QC personnel, and Operations personnel |



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