

COURSE DESCRIPTION

Crane Nuclear offers to provide the services as described in this Technical Description subject to the pricing, terms and conditions delineated in the Commercial Description.



MC2 Data Acquisition & Analysis

Standard Class Size:

6 Students per Instructor

Maximum Class Size:

8 Students

Course Duration:

3 days

Prerequisite:

A working knowledge of Limitorque® actuators

Suggested Attendees:

MOV cognizant Engineers, Electricians, Mechanics, QC personnel, and Operations personnel

Course Description:

This course provides instruction on the utilization of the CRANE Nuclear MC² 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.

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Course Terminal Objectives:

Each student will be required to pass a written test with a minimum score of 80% in order to successfully complete this course. Upon successful completion of this training course, the student will:

- 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.

Course Enabling Objectives:

After completing this course, the student will:

- The purpose and background of MC² 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.

Course Benefits:

- Increase the plant's self-sufficiency in AOV diagnostic testing.
- Increase the reliability of the plant's AOVs.
- Reduce the plant's cost of AOV diagnostic testing.