

Technical 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.

VOTES® Infinity Motor Operated Valve System Usage Training

| | |
|----------------------------------|--|
| Standard Class Size: | 6 Students per Instructor |
| Maximum Class Size | 8 Students per Instructor |
| Course Duration: | 3 Days |
| Prerequisite: | Prior MOV diagnostic training using any of the Crane Nuclear Diagnostic systems (3000, 3500, UDS, Viper™, VOTES Infinity) or other diagnostic systems pre-approved by Crane Nuclear. |
| Supplied Materials: | A training manual for each student |
| Suggested Training Aides: | Two (2) Crane Nuclear VOTES Infinity Systems and two (2) MOV test stands. |
| Suggested Attendees: | MOV engineers, electricians, mechanics, QC personnel, and operations personnel. |

Course Description:

This course will provide students with instruction in the proper installation and operation of the Crane Nuclear VOTES Infinity Diagnostic System through classroom instruction, hands-on laboratory training, and accounts of testing experience. Upon successful completion, the student shall be able to correctly set-up and operate the Crane Nuclear VOTES Infinity System correctly adjust actuator limit and torque switches to a specified criteria, and identify critical MOV parameters and common actuator/valve degradations through basic signature analysis techniques.

Course 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 completion, the student will:

- Demonstrate the proper installation and removal of all applicable Crane Nuclear Diagnostic System transducers.
- Successfully acquire, store, and perform basic analysis of applicable signatures.
- Identify the causes of common MOV degradations and perform necessary adjustments to correct the deficiencies.

Enabling Objectives:

After the completion of the course, the student will:

- Explain the aspects and concept of the CRANE Nuclear VOTES Infinity diagnostic test system.
- Describe and identify various MOV transducers.
- Explain equipment installation and software configuration.
- Describe data acquisition and basic analysis.

Course Benefits:

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