

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 AOV Advanced Signature Analysis Training

Standard Class Size:	8 students per instructor
Course Duration:	4 days
Prerequisite:	VOTES Infinity AOV Data Acquisition
Supplied Materials:	A training manual and an AOV laptop computer for each student
Suggested Attendees:	Plant instrument and control technicians, electricians and their foreman, engineers, QC personnel and operations personnel

Course Description:

This course covers the analysis of AOV performance test data acquired using the VOTES Infinity AOV diagnostic system. Eight (8) AOV performance tests are described individually: Baseline, Hysteresis & Deadband, Repeatability and Linearity (HDRL), Step Response, Step Sensitivity, Step Resolution, Frequency Response and Static Calibration. Basic AOV construction and function will be reviewed. Test terminology, physics, calculations and trouble-shooting procedures will be taught for the parameters reported in each test. Numerous case studies shall be examined to demonstrate proper diagnostic procedures and trouble-shooting practice.

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:

- Perform and correctly identify VOTES Infinity AOV test results.
- Become familiar with the physics governing the test parameters and the calculations used in the VOTES Infinity analysis.
- Follow basic trouble-shooting procedures to isolate problem areas.
- Diagnose AOV functional problems and implement effective solutions.

Course Enabling Objectives:

At the conclusion of this course, the student will:

- Identify factors that influence the proper function of AOVs.
- Identify AOV problems and implement effective solutions.
- Perform a detailed signature analysis of acquired data.
- Have the ability to determine potential degradations.

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.