

BENTLY NEVADA™ 3500 MONITORING SYSTEM FOR TSI APPLICATIONS

Bently Nevada™ 3500 Monitoring System for TSI Applications: This hands-on course with a focus on Turbine Supervisory Instrumentation is a continuation of the standard 3500 Operation & Maintenance course. Topics include configuring and verifying the 3500/45 (Differential and Case Expansion, Valve Position, and Thrust). 3500/50 (Rotor Speed, Zero Speed, Rotor Acceleration), and 3500/42 (Eccentricity and Thrust) monitors. Workshops include practice with 'live' monitors and racks.

Format

Duration: 14 hours **Schedule:** 2 Day(s) **Delivery:** Classroom

Who should attend

- 3500 monitoring system users
- Engineers who maintain and troubleshoot 3500 monitoring systems
- Instrument technicians

Objectives

- Explain the operational differences between the 8mm, 25mm, 35mm, and 50mm probes.
- Demonstrate the proper technique to install and verify the scale factor for an LVDT for Case Expansion or Valve Position while verifying at the 3500 system for accuracy.
- Explain and show mathematically the voltages required for installing Differential Expansion probes and verify at the 3500 system.
- Explain and show mathematically the voltages required for installing the Eccentricity probe and verify at the 3500 system.
- Explain the proper procedure for installing Keyphasor and Rotor speed/Rotor Acceleration probe.
- Connect field wiring for specific input signals to the 3500 Monitoring System and verify signals.

Program Outline

Day 1

- Overview of 3500 monitoring system
- 3300 proximity transducer system
- LVDT operation

Day 2

- Eccentricity
- Rotor speed and acceleration
- Differential expansion (complimentary and ramp)
- Case expansion

