ASSET PERFORMANCE MANAGEMENT

BENTLY NEVADA™ ORBIT 60 FOR TSI APPLICATIONS (3 DAY)

Learn the various aspects of turbine supervisory instrumentation (TSI) measurements: Rotor Speed, Zero Speed, Rotor Acceleration, Eccentricity, Case Expansion, Valve Position, and Differential Expansion – Single DE, CIDE, Ramp DE.

Format

Duration: 21 hours **Schedule:** 3 Day(s) **Delivery:** Classroom

Who should attend

- Plant engineers and technicians involved in maintenance and troubleshooting of steam turbine TSI instrumentation using the Bently Nevada™ Orbit 60 Monitoring System.
- Plant managers and project managers overseeing steam turbine operation and maintenance.
- Control room personnel manipulating the operations of the steam turbine utilizing signals from TSI instrumentation.

Objectives

- Explain the role of the Orbit 60 TSI monitoring system for machinery monitoring and protection.
- Identify Rotor Speed, Rotor Acceleration, and Zero Speed measurements with examples and displays.
- Identify Eccentricity, Case Expansion, Valve Position, and Differential Expansion theory, measurements, configurations and show bar graph displays.
- Use Orbit Studio software to configure the Orbit 60 TSI monitoring system using various input modules in demonstrations, presentations, and workshops.

Required Prerequisites

Bently Nevada™ Orbit 60 Monitoring System

Program Outline

Day 1

- Orbit 60 TSI Overview
- Rotor Speed, Rotor Acceleration, Zero Speed, Eccentricity

Day 2

- Case Expansion, Valve Position

Day 3

- Differential Expansion, CIDE, Single Ramp DE, Dual Ramp DE

- Complementary Input DE, Single Ramp DE, Dual Ramp DE