ASSET PERFORMANCE MANAGEMENT

BENTLY NEVADA™ TRANSDUCER INSTALLATION AND MAINTENANCE

Transducer Installation & Maintenance course will build foundational capability to install, verify, and maintain Bently Nevada™ transducer systems. Develop a basic understanding of core vibration/position measurements used for machinery condition monitoring and protection.

Format

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

Who should attend

- Instrumentation and maintenance personnel responsible for installation/commissioning of transducers and associated wiring.
- Reliability/condition monitoring engineers supporting vibration and machinery protection programs

Objectives

- Describe key concepts of machinery condition monitoring, protection philosophy, and maintenance strategies including commonly monitored machine types
- Explain core vibration principles and fundamentals of radial vibration, phase and speed measurements, and thrust position.
- Explain basic operating principles of transducers for use in component selection, system verification, and troubleshooting.
- Apply recommended proximity transducer installation practices including gapping, routing, sealing, and termination.

Recommended Prerequisites

Basic familiarity with industrial rotating equipment and instrumentation.

Program Outline

Program:

- Machinery Monitoring
- Typically Monitored Machines
- Basic Vibration Concepts
- Radial Vibration Measurements
- Thrust Position Measurements
- Vibration Transducers
- Proximity Transducer Operation
- Proximity Transducer Installation

- Seismic Transducer Operation & Installation
- Instrument Grounding