ASSET PERFORMANCE MANAGEMENT

BENTLY NEVADA™ 3500 OPERATION & MAINTENANCE AND ORBIT 60

The training program offered by Bently Nevada™ focuses on equipping participants with the knowledge and practical skills necessary to operate, configure, and maintain two critical condition monitoring systems: the Bently Nevada™ 3500 Monitoring System and Orbit 60 Monitoring System. Each course combines theory with hands-on workshops to ensure operational excellence and effective troubleshooting. The program is designed for engineers, technicians, and system users responsible for machinery monitoring and protection, aiming to maximize equipment reliability and minimize downtime

Format

Duration: 35 hours **Schedule:** 5 Day(s) **Delivery:** Classroom

Who should attend

- Customer Course Engineers who maintain and troubleshoot 3500 and Orbit 60 monitoring systems
- Instrument technicians
- 3500 and Orbit 60 monitoring system users

Objectives

3500 Operation and Maintenance

- Explain the role of the 3500 Monitoring System in machinery protection.
- Identify installation conditions affecting proximity transducer systems.
- Test monitor alarms and verify channel values.
- Configure and reconfigure the system using proprietary software.
- Troubleshoot the system using hardware and software techniques.

Orbit 60 Monitoring System

- Explain the role of Orbit 60 in machinery monitoring and protection.
- Configure and maintain the Orbit 60 system, including firmware updates.
- Test alarms and troubleshoot using Orbit Studio and diagnostic tools.
- Understand advanced features such as protection groups, communication gateways, and offline diagnostics.

Recommended Prerequisites

Fundamentals of vibration measurements / ISO 18436 Cat I

Program Outline

Day 1 – 3500 Monitoring System Basics

- Overview of 3500 Monitoring System
- 3300 Proximity Transducer System Operation
- 3500 Monitor System Support Components
- TDI/RIM Hardware Connections and Communications
- Power Supply, TDI/RIM, and Keyphasor Configuration

Day 2 – Vibration & Position Measurements

- Keyphasor
- Radial Vibration
- Thrust Position

Day 3 – Advanced 3500 Functions & Orbit 60 Introduction

- Relays
- 3500 System Utilities
- Troubleshooting 3500 System
- 3500/92 Communications Gateway (Optional)
- Orbit 60 Components, Functions, Settings, Properties
- Module Identification
- Connecting to Rack via Orbit Studio

Day 4 – Orbit 60 Configuration & Protection

- Firmware Updates
- Online Configuration, Studio Verification Utility
- Radial Vibration
- Relays
- Protection Groups and States

Day 5 – Orbit 60 Advanced Diagnostics

- Thrust Position
- Device Commands
- Recorder Outputs
- Communication Gateway
- Offline Diagnostics
- Bridge Module