ASSET PERFORMANCE MANAGEMENT

BENTLY NEVADA™ ORBIT 60 RECIP MONITORING AND PROTECTION

The course starts with reciprocating compressors overview. It is designed to help condition monitoring professionals to configure the Orbit 60 system for reciprocating compressors using the Orbit Studio.

It contains presentation, demonstrations, and workshops on how to configure ISO-618 recip compressors and Hyper Compressors. In addition, it is has a practice workshop on calibrating piston rod measurements, and the use of multi-event wheel for speed measurements.

Format

Duration: 8 hours **Delivery:** Classroom

Who should attend

- Bently Nevada™ Orbit 60 monitoring system users.
- Engineers involved in maintenance and troubleshooting of instrumentation connected to Bently Nevada™ Orbit 60 System monitoring reciprocating compressors.
- Instrument technicians

Objectives

- Explain the role of the Orbit 60 monitoring system for reciprocating compressors monitoring and protection.
- Identify Recip measurements with examples and displays.
- Use Orbit Studio software to configure the API-618 Recip compressors and the Recip Hyper compressors using various input modules in demonstrations, presentations, and workshops.

Required Prerequisites

Bently Nevada™ Orbit 60 System monitoring

Program Outline

Program:

Reciprocating Compressors Overview

- Types
- Reciprocating Compressors in Industry
- Main Components
- Hyper Compressors Monitoring
- Condition Monitoring
- Diagnostic Strategy
- Crankshaft Angle

Orbit 60 API-618 Reciprocating Compressor Applications

- Speed channels
- Recip Machinery Model
- Recip Impulse Acceleration channels
- Recip Velocity channels
- Recip Piston Rod channels
- Cylinder Pressure

Orbit 60 Recip Hyper Compressor Applications

- Recip Hyper Compressor Machinery Model
- Recip Velocity channels
- Recip Hyper Plunger channels