ASSET PERFORMANCE MANAGEMENT

ISO 18436-2 CATEGORY II INTERMEDIATE VIBRATION ANALYST

This course provides the ISO 18436-2 Category II coursework towards certification.

Students will explore the condition monitoring technologies, learn how machines work and how to select the correct measurement and the optimum settings, and discover how a well-designed program and a reliability centered maintenance approach improve the bottom line. The course will cover the analysis of vibration spectra, time waveforms, envelope and phase measurements. Students will diagnose and learn how to balance and align a machine and correct a resonance condition.

Format

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

Who should attend

- Engineers analyzing a range of fault conditions
- Engineers who want to understand balancing and alignment
- Engineers desiring to learn about machinery vibration diagnostic
- Personnel who want to become certified to international standards (ISO-18436)

Objectives

- Prepare the participant for the ISO 18436 Category II certification test.
- Learn how to be capable of diagnosing a wide range of faults, conducting special tests, and performing precision aligning and balancing machinery

Required Prerequisites

18 months of experience is required for certification, Recommended ISO CAT I

Program Outline

Day 1:

- Review of maintenance practices & condition monitoring technologies
- Principles of vibration
- Data acquisition

Day 2:

- Proximity probes, velocity sensors and accelerometers
- Signal processing

Day 3:

- Vibration analysis
- Fault analysis

Day 4:

- Equipment testing & diagnostics
- Corrective actions

Day 5:

- Running a successful condition monitoring program
- Acceptance testing
- Review of ISO standards
- Exam (100 multiple-choice questions in 3 hours)

Exam:

The exam and the associated certification is provided by Mobius . Baker Hughes can provide a proctored environment for the paper or online exam.

CERTIFICATION
ISO Certification
Global Partner: Mobius Institute