ASSET PERFORMANCE MANAGEMENT

# ISO 18436-2 CATEGORY I JUNIOR VIBRATION ANALYST

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

Students will explore the benefits of performing condition monitoring and improving reliability, learn how machines work, and discover how vibration measurements assess the condition of the machine. The course will cover Fmax, resolution, averaging and other analyzer settings, as well as analysis of vibration spectra and the basics of fault diagnosis. Setting alarm limits will be introduced.

## Format

**Duration:** 28 hours **Schedule:** 4 Day(s) **Delivery:** Classroom

## Who should attend

- New vibration analysts
- Engineers collecting or analyzing vibration data
- Personnel wanting to develop skills in the field of machine condition & vibration analysis
- Personnel who want to get certified in international standards (ISO-18436)

## Objectives

- Prepare the participant for the ISO 18436 category I certification test
- Learn how to be capable of collecting quality data, and performing basic analysis and data validation
- Develop basic knowledge on vibration analysis and condition monitoring

## Required Prerequisites

6 months of experience is required for certification.

## Program Outline

**Day 1:**

- Maintenance practices
- Condition monitoring
- Principles of vibration

**Day 2:**

- Introduction to vibration measurement
- Introduction to the time waveform

- Introduction to the spectrum

**Day 3:**

- Brief introduction to phase
- Signal processing
- Vibration analysis

**Day 4:**

What is resonance

- Diagnosing common fault conditions
- Setting alarm limits
- Exam (60 multiple-choice questions in 2 hours)

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

**Additional Requirements:** 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