

VIBRATION ANALYSIS COURSE

AL01

Conversion of information into action! Vibration analysis is a proven technology in determining the root source or reoccurring equipment failure and identifying and preventing equipment defects; such as resonance, unbalance, poor lubrication and incorrect engineering applications.

COURSE OBJECTIVE

This two day course is intended for those with little or no vibration experience and prepares participants for the ANST Level I course. It allows participants to understand basic theory, proper data collection techniques, PdM database setup and how vibration can be used to detect machine problems in advance,

BENEFITS

- Identify potential defective problems early
- Decision for shutdown and repair planning
- Optimize machine performance and efficiency
- Measure effectiveness and quality of repair

WHO SHOULD ATTEND

- Maintenance manager
- Mechanical / Electrical engineer
- Reliability engineer / manager
- Rotating equipment engineer

PRE-REQUISITE

No pre-requisite vibration experience is required. Participants attended our course EL04 is an advantage.



Acquiring vibration data from a jaw crusher using a data collector

COURSE MATERIALS

Comprehensive notes and a collection of case studies

COURSE DURATION

2 DAYS

CANCELLATION POLICY

If notice of withdrawal is given in writing - 14 calendar days before the course date, 80% of the course fee will be refunded. A 50% refund will be made for cancellation received in writing - 7 calendar days before the course date. After which, NO REFUND will be entertained.

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COURSE TOPICS

Lesson 1

Introduction to Maintenance Strategies

- Reactive maintenance
- Preventive maintenance
- Predictive maintenance
- Proactive maintenance

Lesson 2

Condition Monitoring Steps for PdM

- Detection
- Analysis
- Correction
- Verification
- Root Cause Analysis

Lesson 3

Setup of Predictive Maintenance Program

- Machinery categorization
- Measurement parameters
- Measurement routes
- Downloading / uploading route
- Data collection
- Measurement intervals

Lesson 4

Basic of Vibration

- Characteristics of vibration
- Natural frequency & resonance
- Time & frequency domain

Lesson 5

Vibration Analysis Terminology

- Displacement, velocity & acceleration
- Phase measurement & angle

Lesson 6

Vibration Parameters

- Displacement, velocity & acceleration
- Transducer selection
- Data collection / analyzer selection
- Type of transducer
- Type of mountings

Lesson 7

Setting Up The Analyzer

- Frequency resolution
- Frequency range / frequency span
- Auto range / auto scale
- Averaging
- Data acquisition time
- Types of window

REGISTRATION

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