

TRAINING ON VIBRATION ANALYSIS & IN-SITU DYNAMIC BALANCING - 2 DAYS WORKSHOP ON ALIGNMENT - 1 DAY THEORY & PRACTICE

CONDUCTED BY

Maintenance Analytics & Training Services



Interested Candidates shall reach us from the below details.

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PROGRAMME OVERVIEW:

Basics of Vibration Analysis, Diagnostic Studies & In-situ Dynamic Balancing - 2 Days

Workshop on Coupling Alignment - 1 Day

Its a competency-based program where the candidate will be taught from the basics of vibration up-to advance level in vibration. The candidate will also be taught on the practical procedure of Balancing.

COURSE CONTENTS

(DAY 1)

Basics of Vibration

- Define Vibration Analysis Terms – Displacement, Velocity, Acceleration, Frequency, Phase & Spectrum
- Select appropriate vibration meter/analyzer for a particular task
- Identify and locate the vibration pickup precisely with respect to position and orientation for achieving best results
- Measure and record data using vibration analyzer
- Understanding Frequency & Phase Analysis
- Phase and spectral symptoms of Unbalance, Bent Shaft, Looseness & Coupling Misalignment
- Vibration due to coupling and shaft misalignment
- Factors that affect natural frequency

Vibration Transducers & its Selection Methods

- Introduction
- Types of Vibration Transducers and Their Optimum Applications
- Selection Criteria
- Mounting of Transducer & its Application

ISO Standards

- Classification of Machine.
- Fixing up of alarm & limits.
- Criteria to be considered for test bed and on-site test.

(DAY 2)

Vibration Analysis

- Approach to Vibration Analysis.
- What to look for most of the time
- Approaching a problem
- Analysis of defects in Bearings, Belt, Gearbox, Coupling.
- Analyzing electrical problem.
- Beat, resonance and elimination of such problems

Balancing

- Prevention and correction of unbalance
- Single plane vs. two plane unbalance
- Spectral analysis for unbalance
- Preventing unbalance due to assembly errors

(DAY 3)

Alignment

- About Couplings & Types of Couplings
- Basics of Alignment & Effects of Misalignment
- Soft Foot & solving
- Types & Causes for Misalignment
- Advantages of Good Alignment
- Scientific Diagnosis of Belt, Chain & Coupling misalignment
- Pre-conditions of Alignment
- Alignment Tolerance
- Laser Alignment Practical Demonstration

WHO SHOULD ATTEND?

Manager/Engineer/Supervisor/Staff who are involved in direct maintenance, trouble shooting of rotating machinery and those involved in best maintenance practices & continuous improvement.

M/s. Maintenance Analytics & Training Services
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