

MAINTENANCE ANALYTICS & TRAINING SERVICES

ONLINE VIBRATION ANALYSIS & IN-SITU DYNAMIC BALANCING – 02 DAYS

COUPLING ALIGNMENT – 01 DAY (THEORY AND PRACTICE)

COURSE CONTENTS

Basics on Condition Based Maintenance

- Basics of Predictive maintenance
- Bath Tub Diagram
- Trending
- Various CBM techniques

Vibration Analysis

- What is Vibration and how can it be used to Evaluate Machinery Condition
- Terminologies of Vibration Analysis – Displacement, Velocity, Acceleration, Frequency
- Define Vibration Phase
- Define Vibration spectrum
- Difference between RMS, Peak and Peak-Peak Vibration Amplitude.
- Usage of Displacement, Velocity or Acceleration
- How much is too much Vibration?
- What is overall Vibration?
- Understanding Phase and Its Application
- Using Phase Analysis in Vibration Diagnostics
- Common pitfalls in every day Vibration Measurements
- Choosing Measurements Location

ISO Standards

- Classification of Machine.
- Fixing up of alarm & limits.

Criteria to be considered for test bed and on-site test.

Single Plane Balancing – Theory

- Single Plane Balancing – Theory & Demonstration
- Correction of unbalance & steps towards prevention.
- Weight Splitting / Combination using vectors
- Single plane vs. Two plane Balancing
- Preventing unbalance due to assembly errors

Alignment - Training & Practice (01 Day)

- About Couplings & Types of Couplings
- Basics of Alignment & Effects of Misalignment
- Deducting Soft Foot & solving
- Types, Causes for Misalignment
- Advantages of Good Alignment
- Alignment Graphical Calculations using **Rim & Face & Reverse Dial Gauge** Method
- Pre-conditions of Alignment & **Alignment Tolerance**
- Laser Alignment – Practice

FACILITIES FOR ONLINE TRAININGS:

- Laptop connected with Online Meeting Platform
- 02 Programmed HD cameras for Live streaming for smooth Flow.
- Dedicated Demonstration Kit for Practical demo - 03 Models including VFD type
- High speed Internet connectivity from 02 different Service providers.
- Animation & Live Videos

Course Trainers / Facilitators:

Faculty for Vibration Analysis Training has more than 35 years of good practical hands-on experience in industries like Automobile, Cement, Sugar, Power (Thermal / Nuclear), Petrochemical, Refinery, Oil & Natural Gas, Pharmaceuticals, Paper, Chemical, etc.,) in India & Abroad.

Faculty for Alignment having more than 38 years of hands-on experience will be conducting practical demonstration using Laser Alignment instrument.

“MAINTENANCE ANALYTICS TRAINING SERVICES, CHENNAI RESERVES THE RIGHT TO ACCEPT OR REJECT NOMINATION OF CANDIDATES FOR TRAINING.”

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