



**P2M TEKNIK MESIN  
FAKULTAS TEKNIK  
UNIVERSITAS INDONESIA**

## **VIBRATION ANALYSIS PREDICTIVE MAINTENANCE**

### **DESKRIPSI**

Pelatihan ini menjelaskan tentang teori dasar vibrasi, keuntungan predictive maintenance dan bagaimana menyusun program predictive maintenance. Bersama dengan ini juga akan dijelaskan saling ketergantungan antara vibration monitoring, vibration analysis dan condition based maintenance.

Dengan mengikuti pelatihan 3 (tiga) hari ini diharapkan peserta akan mampu memahami vibrasi dan analisisnya serta pemahaman lebih mendalam mengenai predictive maintenance.

### **AGENDA**

- Basic Vibration
  - Typical Causes of Vibration
  - Characteristics of Vibration
  - Vibration and Root Cause Analysis
  - Frequency, Spike Energy, Displacement
- How Rotating machine Behave
  - Machinery Mass and Speed
  - Shaft Systems
  - Bearing Systems
  - Foundation and Support Structures
- Case Histories with Vibration Spectra Displays
  - Amplitude Vs Frequency
  - What is a decibel?
  - Interpreting Amplitude/ Phase-vs. rpm plots
  - Stroboscopic Observations
- Benefits of Predictive Maintenance Program
  - Cost Benefit Analysis
  - Cost Analysis
  - Detection Requirements

### **METODE**

- Metode yang digunakan adalah :
- Presentasi
- Diskusi

### **PESERTA**

Electrical Engineers, Electricians, Maintenance Engineers & Technicians, Process Engineers, Instrumentation & Control Engineers, Maintenance Engineers, Mechanical Engineers & Technicians, Control Technicians, Consulting Engineers, Automation Engineers.

### **FASILITAS**

Materi Pelatihan, Instruktur Berkualitas, Sertifikat, Souvenir Eksklusif, Makan Siang & Snack



## **PENDAFTARAN PESERTA**

### **Sekretariat :**

**Gd. P2M - Dept. Teknik Mesin FTUI  
Jl. Salemba Raya 4, Jakarta Pusat 10430  
Phone /fax.: 021-3149720, 021-3144660**

**WhatsApp : +62 813 8825 4054**

**E-mail : p2mmesin@eng.ui.ac.id**

**Website : p2mmesin.eng.ui.ac.id**