



# VIBRATION ANALYSIS II (ISO CAT III)

[ISO Based-Training]

This course is designed for the Practicing Analyst with a Category II (or equivalent) level of Experience. The Class is presented in an un-biased format, generic to industry Hardware and Software Products. This course is not necessarily “hands-on” but does provide numerous in-class Demonstrations to support and Emphasize Important Vibration Analysis Topics. This Category III training complies with the Vibration Analysis requirements recommended by the International Standards Organization (ISO) Body of Knowledge for Category III.

38 Hours Classroom (4-Day) Format - Certification Test: 100 Questions on 5th day of class (4 hours)

**March 7-10 • 2022**

*\$2,000 for four days of class, materials and meals.  
\$2,500 if taking the certification exam.*

Registration: 7:30 to 8am  
**Sessions run from 8 to 4:00 pm**  
Breakfast & Lunch provided

**Instructor:**  
Allen Plymon  
Plymon Vibration  
Consultants, LLC



## Course Outline

Predictive Maintenance & Condition Monitoring  
Review of Basic Vibration Theory & Practice  
Time Waveform Techniques  
Shaft Orbit Analysis  
Signal Processing / Data Acquisition  
Problem Detection / Data Analysis

- The Normal Spectrum
- Unbalance
- Misalignment
- Eccentricity
- Bent Shaft / Thermal Bow
- Mechanical Looseness
- Rolling Element Bearing Problems
- Journal Bearing Problems
- AC Motor Electrical Problems
- DC Motor Electrical Problems

- VFD Motor Problems
- Hydraulic & Aerodynamic Problems
- Advanced Gear Problems
- Natural Frequency & Resonance

Introduction to Isolation & Damping  
Tuned Vibration Absorbers  
HFD & Ultrasonic Demodulations  
Methods  
Database Alarm & Statistical Techniques

**Please RSVP to:**  
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