



# LEVEL 1 • CAT 1 ISO VIBRATION CLASS

## [ISO Based-Training]

The Introduction to Vibration Analysis course is designed for the New Analyst, Maintenance Technician, or Management Supervisor with Little or No Formal Training. The Class is designed to guide potential vibration analysts to this field, and to provide essential information for supervisory level personnel with respect to terminology, plotted formats and why this technology is needed in industry. The course includes a short "Proficiency Test" that can be used as a self-assessment tool. This training is aligned with the Vibration Analysis "Body of Knowledge" requirements recommended by the American Society of Non-destructive Testing (ASNT).

Recent modifications to the curricula make the Introduction to Vibration Analysis course compliant with guidelines put in place by the International Standards Organization (ISO). Completion of the requirements of this course will earn the trainee a certification as an ISO Category I. Vibration Analyst.

**24 Hours Classroom (3-Day) Format - Proficiency Test: 30 Questions on last day of class (1/2 hr)**

**May 9-13 • 2022**  
*\$1,500 for three days of class, materials and meals. \$2,000 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

**Chapter 1.** Introduction – Predictive Maintenance  
Program Benefits

**Chapter 2.** Basic Vibration Theory

**Chapter 3.** Machinery Components

**Chapter 4.** Vibration Transducers

**Chapter 5.** Problem Detection / Data Analysis

- The Normal Spectrum
- Balance / Unbalance / Imbalance
- Eccentricity
- Misalignment
- Bent Shaft / Thermal Bow
- Mechanical Looseness

- Rolling Element Bearing Problems
- AC Electric Motor Problems
- Aerodynamic / Hydrodynamic Problems
- Natural Frequency & Resonance
- Gear Problems

**Chapter 6.** Trouble-Shooting Guide

**Chapter 7.** Database Alarms / Severity

**Please RSVP to:**  
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