Course Overview:

This course we provide the essential training for the beginning stages of any analyst's Predictive Maintenance or Reliability efforts. Attendees are instructed in data collection, analysis theory and identifying machinery faults.
We teach concepts applicable to diagnostic systems and help highlight relevant analysis limitations.

Course Objective:

- Provide a foundation for new or practicing analysts to become more effective at problem detection & resolution
- Provide analysis skills for new or practicing analysts to be more effective at problem detection & resolution; build upon the Vibration Fundamentals course information.
- Review common machinery & machine components
- Review how to apply industrial vibration severity criteria
- Provide formats, examples & techniques for effective reporting

Course Outline:

- Introduction
- Common Machinery & Design Elements
- Maintenance Strategies
- Principles ofVibration
- Understanding Time-Waveform Plots
- Understanding Vibration – Spectrum Plots
- Vibration Analysis Instrumentation
- Vibration Transducers - Overview & Selection
- Vibration Severity Criteria
- Database Alarm Techniques
- Machinery Fault Analysis & Corrective Actions

Who Should Attend:

Mechanical, Operation, Production, and Maintenance Engineers Senior Technicians, who work in power utilities, should benefit from this course. Also Senior Engineers should update and refresh their knowledge by attending this course.

Training Language:

EN / AR

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation