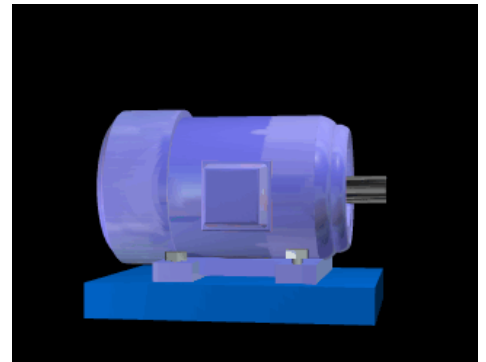
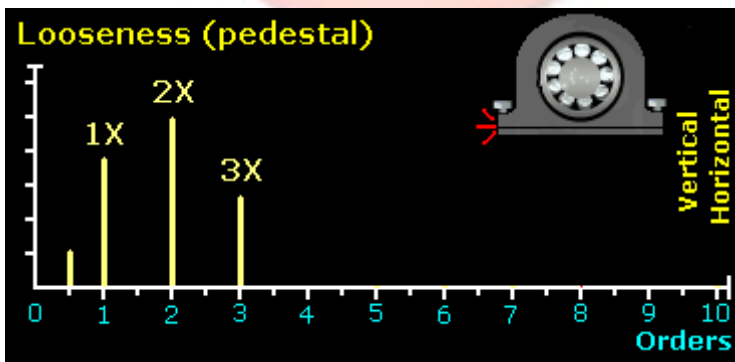


# Level 1 Vibration Analysis

- This course conforms to BINDT CM/GEN Appendix D & ISO 18436:2 Level 1 and includes continuous review, demonstration of practical skills and final examination.
- Extensive use of live animation software and rotating equipment rigs

## ■ Introduction

- Maintenance strategies-Breakdown, Preventive, Condition Based
- Condition Monitoring Techniques including Infrared Thermography, Oil Analysis, Motor testing, Acoustic Emission, Ultrasonics etc
- Detection, Analysis, Correction, Verification, Root Cause
- Vibration as an indicator of machine condition
- How Vibration affects machine life
- Setting up a Condition Monitoring database and the value of Baseline Signatures
- Characteristics of Vibration-Frequency, Amplitude, Spectra, Phase etc
- Bearing defect detection methods with practical demonstrations
- Types of Instrumentation
- Severity
- ISO Vibration standards
- Theory and operation of Transducers
- Data Processing
- Basic vibration analysis to determine condition
- Recognition of bad data
- Reporting methods



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