



## Vibration Analysis-Level 2: Vibration Analysis & Problem Diagnostics

Ver 1.1

### **Topics Covered**

Common Machinery Problems – Problem Diagnostics in detail - Case Studies of Major Problems - Signature Analysis - Practical Tips - Do's & Don'ts - Exercise.

### **The Significance**

The Industrial Equipments are subjected to rigorous operating conditions and therefore the possibilities of a break down from various inaccuracies and problems are quite significant. Therefore, a predictive maintenance based machinery problem diagnostics is a must in ensuring a trouble free operation. Though there are many methods of machinery fault diagnostics (condition monitoring), one of the most effective methods is vibration analysis. We are covering vibration analysis and problem diagnostics of all the major machinery problems through spectrum & phase characteristics, which are common for all the industrial equipments.

Also, please refer to our SKF Self-Learning Tool-Vibration Analysis. Level 1: Basics of vibration & preliminary analysis for fundamentals of vibration analysis.

Common Machinery Problems Discussed in this SKF Self-Learning Tool with case studies. Unbalance - Misalignment – Mechanical Looseness - Bent Shaft - Eccentricity - Coupling Inaccuracies - Bearing Defects – Gear Related Problems - Defective Belt Driven System - Inadequate Rigidity - Rubbing - Distortion - Piping Forces.