

Course Name:

Misalignment Causes and Corrections

Course Description:

This course will concentrate on one of the biggest problems concerning rotating equipment, misalignment. This training will, in the classroom, teach craftsmen how to identify misalignment using spectral analysis, waveform analysis and cross-channel phase analysis.

The severity of misalignment will also be addressed.

Misalignment can be seen at 1x or 2x turning speed, as high axial vibration, which can cause resonance problems. This course will give craftsmen the knowledge to confirm whether misalignment is the problem, and how to correct it.

Course Objectives:

The objective of this course is to teach analysts how to identify the spectral and waveform characteristics of misalignment, identify the different types of misalignment, and how to use advanced analysis techniques to confirm misalignment.

Topics:

- Spectral analysis of misalignment
- Waveform analysis of misalignment
- Using phase analysis to confirm misalignment
- What is misalignment?
- Characteristics of misalignment
- High axial vibration levels
- Parallel misalignment
- Axial misalignment
- Bearing misalignment
- Coupling defects
- Soft foot or coupling alignment

