

Course Name:

Alignment Training (For Craftsmen)

Course Description:

Misalignment is one of the most common machine problems. This course will teach the theories of equipment alignment, as well as practical, hands-on approaches to correcting alignment.

Course Objectives:

The objective of this course is for the attendee to understand the importance of alignment and how to correctly align equipment.

Topics:

- What is alignment
- Why align equipment
- Monetary savings
- Shaft bending caused by misalignment
- Precision alignment
- Alignment pitfalls
- Setup errors in alignment
- Building on good foundations
- Weak bases
- Pre-alignment procedures
- Equipment inspections before alignment
- Pre-alignment checks
- Performing rough alignment
- Base-bound corrections
- Bolt-bound corrections
- Alignment tolerances
- Detecting misalignment
- Thermal growth
- Pipe strain
- Root cause failure analysis of bearings
- Coupling inspections

