

Course Name:

Belt and Sheave Alignment

Course Description:

Belt tension, belt alignment and belt system inspection if not done correctly done ruins motors and driven equipment. It also ruins belts, causing excessive chronic problems, excessive workloads and excessive inventory.

Belt and sheave alignment issues can create chronic equipment problems in motors, drives and other systems. If not corrected, they can create chronic problems in these systems.

While the basic forms of misalignment may be understood, accurate measurements and acceptable limits must be determined before corrective action is taken.

Course Objectives:

The objective of this course is to show the importance of proper belt tension, belt alignment and belt system inspect along with teaching the methods and techniques. Through proper installation and maintenance, the service life of your belt drives will dramatically improve, reducing chronic problems, downtime and production standstills.

Topics:

- The importance of proper belt and sheave alignment
- Sources of drive problems
- Preventing drive belt alignment problems
- Severity of misalignment
- Types of belt and sheave misalignment
- Measuring belt and sheave misalignment
- Correcting belt and sheave misalignment
- Sheave maintenance
- Sheave runout
- Belt matching
- V-belts
- Sheave misalignment tolerances
- Belt drive vibration and how it can be corrected
- Squealing belts
- QD bushed sprocket mounting
- Belt alignment while running
- Installation of sprockets
- Belt/pulley misalignment
- Using a sheave gauge
- Troubleshooting methods
- Sheave/pulley installation
- Laser belt alignment
- Belt tensioning

