Shaft Alignment Best Practices

Training Course Outline

COURSE DESCRIPTION

This course covers best practices for pre-alignment, couplings, thermal growth, shims, and more for individuals who are familiar with shaft alignment. Students will be given one full day of classroom instruction, with numerous opportunities for "hands-on" training. Our classroom is equipped with multiple alignment demonstrator units designed to simulate real machines. The second day will consist of training in our "machine room" where the class will align real machinery.

Hands-On

Significant hands-on training time, building both competence & confidence.

Expert Trainers

Expert trainers with decades of maintenance experience on all types of industrial equipment.

Small Class Size

Small class size with an excellent student to instructor ratio.

Who Should Take This Class?

- Those who need to perform shaft alignment accurately and efficiently.
- Both new and experienced maintenance professionals.
- Those who need to reduce maintenance costs and part replacements.
- Anyone who wants to continue with their alignment knowledge by taking our *Train the Trainer* course after *Shaft Alignment Best Practices.*

CURRICULUM

Introduction to Alignment
- Axis of Rotation
- Angular Misalignment
- Offset Misalignment

Pre-Alignment Considerations
- Run Out
- Rough Alignment
- Obvious Soft Foot
- Tightening
- Final Soft Foot
- Other considerations:
  - Gap (gear couplings)
  - Pipe Stress
  - Magnetic Center

Activity: Pre-Alignment

Demonstration of the Alignment Process
- Explain a "Compound" Move
- Selecting Tolerances: set to 1800 RPM
- 1st Alignment: Instructor performs an alignment in front of all students
- 2nd Alignment: Instructor performs an alignment in front of all students, then students participate and instructor saves data.

Activity: Alignment
The student will align to 1800 RPM tolerance

Activity: Alignment
The student will align to 3600 RPM tolerance

Activity: Saving Data
Tolerance Discussion

Activity: Settings

Activity: Tri-Point Measuring Method

Activity: Solving Base-Bound/ Bolt-Bound Problems

Activity: Settings Thermal Targets

Activity: Using the Clock Method

Activity: Checking and Correcting Soft Foot Using Your Laser
Vertical Alignment Demonstration

Duration: 1.5 Days

Class Size: 9 Students

Location:
Acoem USA
530-G Southlake Blvd.
Richmond, VA 23236
Also, available at your facility.

Cost: Visit our website for up-to-date pricing

Have a Question, Want to Sign Up?
acoem.us/training

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