

Operational Readiness Training for Fluke 830/831 Laser Shaft Alignment Tools



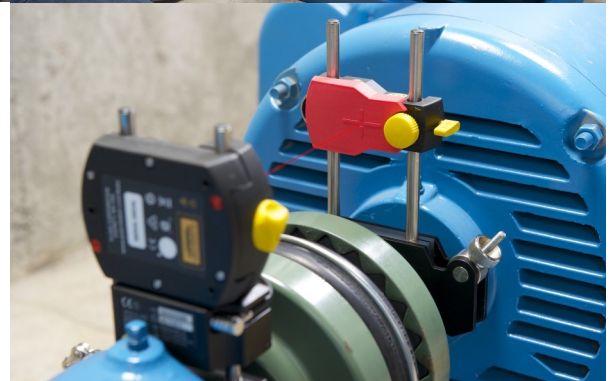
Getting productive and up to speed quickly with your Fluke Laser Shaft Alignment System investment is the goal of this training course. The course takes a pragmatic approach to educating new users with varying levels of technical knowledge about mechanical/machine vibration, condition monitoring, and shaft alignment principles. This class is modular and the course can be tailored to meet your training objectives. Topics and hands-on exercises can be added, deleted, emphasized, or de-emphasize based on the training objectives.



Fox River Systems' approach to training maximizes the student learning experience by striking a balance between lecture and hands-on laboratories and between essential theory of operation and practical applications. We keep the student engaged and interested in learning throughout training.

The key takeaways from the class include:

- Understanding proactive maintenance principles and why they're employed
- The importance of precision alignment
- Machine alignment principles & techniques
- Step-by-step procedures for aligning machines using a Fluke 830/831
- Best practices for achieving accuracy in the alignment process
- Saving and printing reports



Private, on-site classes may be tailored to address topics of importance to your organization by adding additional time to the core class module. Examples include:

- Hands-On practice labs with the Fluke 830/831
- Fieldwork including vibration testing and alignment work
- Operational training for other predictive technologies such as:
 - Fluke 805FC vibration Meter
 - Fluke 810 Vibration Tester
 - Fluke 820 Strobe
 - Infrared thermal imagers
 - Power Quality loggers, recorders, and troubleshooters



Training Syllabus

Proactive Maintenance Principles

- - Introduction to the concept of machinery vibration analysis & diagnostics
 - Why Precision Alignment is important

□ Alignment Principles

- Shaft alignment basics
- Symptoms and consequences of misalignment
- Common alignment methods

□ Laser Alignment—Product Overview

- Introduction of the Laser Shaft Alignment Tool
- Laser alignment technology
- Laser alignment hardware
- Measurement principles
- Pre-alignment check-list

Step-by-Step Alignment Process Using the Fluke Laser Shaft Alignment Tool

- - Prepare: Mount bracket assemblies on the shafts
 - Setup Step: measure machine dimensions
 - Measure: measurements used to calculate misalignment
 - Diagnose: Review of the misalignment severity and adjustments needed for correction
 - Corrections: shim the motor feet using precision shims for vertical adjustments and then jack the motor for horizontal adjustments
 - Re-measure—validate alignment is complete before returning the machine to service
 - Report—saving the alignment report

□ Other features, Measurement options, Accessories

- Soft Foot check
- Tolerance Table
- Measurement options—Extend Detector Range for gross misalignment conditions
- Measurement options—Averaging used for improving accuracy with sleeve, white metal, and journal bearings
- Performing firmware updates on a Fluke 830/831
- Optional Accessories—Shaft Alignment Brackets (Compact magnetic bracket), Shims



Ordering Information

Part Number/Description	Price & Schedule
ORT-FLUKE-ALIGN Operational Readiness Training for Fluke 830/831 Laser Shaft Alignment system	CALL

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