Operational Readiness Training for the Fluke 810 Vibration Tester

Fox River Systems

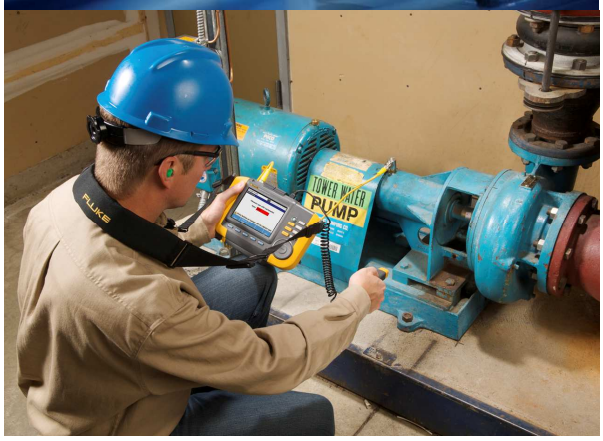
Getting productive and up to speed quickly with your Fluke 810 Vibration Tester investment is the goal of this day long training course. The course takes a pragmatic approach to educating new users with varying levels of technical knowledge on operation and troubleshooting/diagnostic applications for the Fluke 810. The course includes an introductory overview of machinery vibration concepts, instrument familiarization and operation, and hands-on training using both the Fluke 810 Vibration Tester and PC software included with the Fluke 810.

Fox River Systems approach to training maximizes student learning by balancing between lecture and hands-on laboratories and between essential theory of operation and practical applications. The key takeaways from the class include:

- Understanding basic machinery vibration concepts and the top 4 rotating equipment failure modes: imbalance, misalignment, looseness, and bearing faults
- Where and how to employ the Fluke 810 Vibration Analyzer with its strengths and limitations
- How to operate the Fluke 810 to make vibration measurements on rotating equipment assets
- How to review resulting measurements, severity ratings, and cause
- How to generate reports based on measurements

For on-site classes, it's also possible to tailor the training experience to address topics of importance to your organization by adding additional time beyond the standard class. Some typical examples include:

- Predictive Maintenance Programs
    - Developing a strategy for how/where to employ the Fluke 810 specific to your business
    - Defining setups (drive train set-up) for conducting inspections on your specific rotating equipment
    - Development of inspection procedures to survey your assets
- Inspections/Surveys
    - Determining sensor placement for vibration measurements.
    - Affixing permanent stud mounts to equipment for regular measurements
    - Conducting surveys of specific equipment assets



Training Syllabus

- Introductory Material
  - Introduction to the concept of machinery vibration analysis & diagnostics
  - Theory of operation of the Fluke 810
  - Overview of supported applications

- Instrument Overview
  - Instrument physical connection familiarization
  - Tri-axial accelerometer and tachometer overview
  - Fluke 810 menu navigation and instrument settings
  - Sensor operation verification

- Fluke 810 Vibration Analyzer Operation
  - Developing machine setups/machine train definition
  - Saving & recalling machine setups
  - Shaft speed determination using the tachometer
  - Collecting vibration data
  - Reviewing measurements by severity/understanding the cause

- Fluke 810 Software
  - Fluke software installation and configuration
  - Downloading vibration measurement information to a PC
  - Developing machine setups using Fluke software
  - Generating reports

- Hands-on lab practice scenarios
  - Machine train definition
  - Sensor placement—placement technique & measurement locations
  - Drive shaft speed measurement using a tachometer
  - Making vibration measurements and analyzing results
  - Machine fault examples:
    - Imbalance
    - Misalignment
    - Looseness
    - Bearing Faults

Ordering Information

Part Number/Description	Price
ORT810-PUBLIC Public training course for 1 student	**CALL**
ORT810-ONSITE Includes training and materials for up to 2 students.	**CALL**
ORT810-ONSITE1 Training and materials for each additional student.	**CALL**

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