



Interested in Motor Tester Training for you or your employees?

The Fort Collins Center of Excellence hosts training courses throughout the year.

Get up to speed with the latest techniques and technologies to improve reliability and quality assurance of motors and the rotating equipment they drive.

Our four-day training courses, which are held at Megger's Fort Collins Center of Excellence in Colorado (just north of Denver), **provide hands-on and technologies** to improve reliability and quality assurance of motors and the rotating equipment they drive.

Please call us for details about this or any of our training programs: **970-286-9503**

We also offer limited availability for **onsite training**.

Static Level I

IN-PERSON

- Jan. 23-26
- March 12-15
- May 14-17
- July 23-26
- Sept. 24-27
- Nov. 5-8

In-Person - \$1,900



This course provides an in-depth look at the technical theory and concepts of electrical insulation testing in motors. Each test method will be discussed in the context of motors tested while in a static state (powered down/off). Students are taught to analyze results corresponding to specific insulation faults modes. The operation of various Baker Static Motor Analyzers (Baker DX, Baker ADX and Baker AWA-IV) and respective software programs are covered in detail.

Discussions include methods to reduce costly downtime, troubleshooting, and motor quality control through use of static motor testing. Hands-on testing is included to provide students practical experience. By the end of this course, students should have working knowledge of static motor testing methods and be able to collect quality data to analyze for common motor failure modes. A final written and practical exam is required to complete this course.

LEARNING OBJECTIVES:

- Summarize electrical insulation theory as it pertains to electric motor testing
- Explain motor insulation testing applications
- Perform tests with appropriate equipment and its respective software
- Troubleshoot connections in the event of poor test results
- Demonstrate instrument operation and its associated hardware and software



In-Person - \$1,900

Static Level II

IN-PERSON

- Aug. 6-9

Successful completion of Static Motor Testing Level I is a prerequisite for this course

This advanced course is designed to build on the knowledge obtained from previous static course work and significant field experience with static motor test equipment. This course provides instruction on detailed diagnosis of motor conditions using actual motor test data and Baker motor test software applications. It will rely upon user case studies and advanced theoretical instruction. Course completion is contingent upon practical presentation the students create with their analyzed data.

LEARNING OBJECTIVES:

- Explain operation of test equipment and analysis tools
- Outline static motor test parameters and thresholds
- Develop practical knowledge of electrical insulation and circuit theory
- Demonstrate how specific electric motor failure modes are revealed by motor test data

Dynamic Level I

IN-PERSON

- Feb. 20-23
- June 18-21

In-Person - \$1,900



This introductory course provides a fundamental look at technical theory and concepts associated with diagnosing problems with motors that are in a dynamic or powered-on (operational) state. Upon completion of this course, students will gain a working knowledge of dynamic motor monitoring methods, be able to collect quality data, and interpret threshold alarms and their associated failure modes. This course includes hands-on operation of motor analyzers in a laboratory environment.

LEARNING OBJECTIVES:

- Summarize AC motor theory as it relates to the collection of dynamic-state monitoring data
- Describe the capabilities and limitations associated with dynamic motor monitoring
- Explain the parameters acquired by Baker Dynamic Motor Analyzers and the relevance of these parameters to specific faults
- Develop a working knowledge of the Baker Dynamic Motor Analyzer - EXP4000



In-Person - \$1,900

Dynamic Level II

IN-PERSON

- Oct. 8-11

Successful completion of Dynamic Level I is a prerequisite for this course

This course builds upon knowledge obtained from successful completion of previous Baker course work and significant field experience with dynamic motor monitoring equipment. The course provides instruction on detailed diagnosis of motor and motorized system problems. Coursework includes review of case studies, analysis of previously acquired data, hands-on, live motor acquisition/monitoring and resultant data analysis in a laboratory environment. Successful completion of this course is contingent upon passage of a final written and practical exam.

LEARNING OBJECTIVES:

- Explain the operation of dynamic-state motor monitoring equipment and associated software
- Describe motor and machine system monitoring applications
- Develop a good working knowledge of electric motor theory and how it pertains to motor monitoring
- Hands-on training for familiarity with instrumentation connection and operation
- Diagnose potential problems within electric motors and the systems within which they operate

*All dates are contingent on Covid-19 travel and gathering restrictions