

WI 261 – Introduction to Static Testing & Dynamic Motor Monitoring

Recommended for

Electrical managers and technicians; personnel responsible for electric motor maintenance, repair & reliability; staff responsible for predictive maintenance of electric motors.

Course objective

Develop a general understanding of AC motor theory and construction; develop a general understanding of what static motor testing and dynamic motor monitoring involves. Understand what standards are applicable to the electric motor testing. Develop a general working knowledge of instrumentation for both static motor testing and dynamic motor monitoring.

Course description

This introductory course will allow the participant to obtain information on AC motor theory, construction & dynamic motor monitoring as well as static motor testing. Hands on practical demonstrations are part of the training program. By the end of this course the student will have a working knowledge of both static & dynamic motor testing methods, be able to collect quality data and determine basic motor faults.

Topics include:

Basic AC motor theory

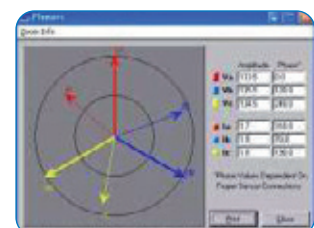
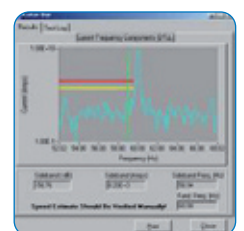
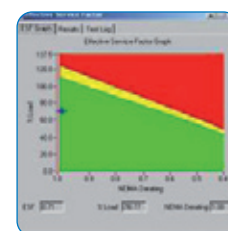
- Basic electromagnetic theory
- Basic AC motor construction
- Various types of motors

Introduction to static motor theory

- Insulation systems
- Failure mechanisms
- Testing methods & pass/fail criteria
- Recommended test voltages
- Test sequence overview

Introduction to dynamic motor monitoring

- Machine System Overview
- Properly connecting the test equipment
- Obtaining quality data
- Power, motor, load assessment



Course length

2 days