Motor Current Analysis

Course Objectives:

MCA is an Interrelationships between current and vibration monitoring to detect the root cause (RCA) of problems It is a great tool to for asset management and condition monitoring tool for electrical drive systems. MCA can be used to detect broken rotor bars, abnormal air gap eccentricity, shorted turns in stator windings, shaft/coupling misalignment, stator core vibration characteristics and problems.

Detailed topic list:

Review of condition monitoring technologies and the ISO standards

Motor Current Analysis

- Fundamentals of MCA
- Current Analysis
- MCSA Instrumentation
- Motor Current Signature Analysis
- Magnetostriction
- Stator Related Fault Conditions
- Rotor Related Fault Conditions
- Loose Connectors
- Shorted Laminations
- Reliable interpretation
- Current spectra
- Broken Rotor Bars
- Air Gap Eccentricity
- Shorted Turns in Stator Winding
- Flux Coil Analysis
- Rotor Bar Analysis
- Unbalanced Voltage Supply
- High Frequency flux Analysis

Course Duration

- The course consists of Two full days of training & 1-hour exam

Hours

- 9.00 am to 4.00 pm (Days 1-2)
- Exam: 1 hour - end of Day 2

Who should attend

- Maintenance Professionals
- Plant/Rigs Supervisors
- R & D Personnel
- QA/QC Supervisors
- Equipment designers
- HVAC Engineers
- Plant Technicians
- Vibration Engineer
- Inst. Technicians
- Maintenance Technicians
- Equipment Operators
- Reliability Engineers
- Industrial Engineers
- Operations Managers

Practical Applications of Training Course

This course provides unique opportunities to study Vibration principles beyond the textbook.

Motor Current Analysis MCA

MEGA ENGINEERING SOLUTION

Mega Engineering Solution

Phone: 051-8897375, 0333-5486697

Learning Outcomes

❖ Correctly undertake vibration data collection