



“Off Line & On Line Motor Testing”

OPEN TO OPMUG MEMBERS

By: Shermco Industries

April 12th-14th 2010

8:00-5:00

**Southern Oklahoma Technology Center
Ardmore, OK**

NOTE THE NEW LOCATION OF THIS EVENT!

This is to better serve our membership

A great class offered by a partnership with the State of Oklahoma and **Southern Technology Center** and OPMUG!

COURSE COSTS:

**Oklahoma based company
Class: \$450**

**Out-of-State company-
Class: \$650**

This 2.5 day course is designed for plant maintenance technicians and electricians. It will cover basic theory and operation of induction and synchronous motors and testing equipment rated 50 HP and larger. The most common off-line electrical tests are covered, including insulation resistance, surge comparison and high potential testing. You will learn motor winding construction and insulation systems. Motor electrical testing is covered in detail as well as analysis of the test results. Lecture sessions are alternated with hands-on lab sessions to optimize learning



Registration will be limited to the first 12 students that register!

<http://www.opmug.net/>

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*****IMPORTANT*****

Questions concerning this can be directed to Jason Phipps at the Southern Oklahoma Technology Center

Course Schedule/Outline

8:00-5:00 subject to instructor's discretion

1. Basic Motor Theory and Operation

A. Types of motors

- AC
- DC

B. Operation and Construction

C. Insulation Systems

2. Motor Testing

A. What tests to do

- B. Intervals
- C. Trending

3. Safety During Testing

4. Off-Line Tests

A. Insulation Resistance

B. Polarization Index

C. Step Voltage

D. Surge-Comparison Testing

E. High-Potential Testing

F. Insulation power factor

G. Rotor Influence Check (RIC)

H. Evaluating Results

I. Case Studies

5. On-Line Tests

A. Power Circuit

B. Power Quality

C. Rotor Analysis

D. Stator Analysis

E. Case Studies



6. Lab Session on Motor Testing

****Cancellation Policy****

A training class can be cancelled when, less than 75% funded and is less than 30 days from the start of class (training). In this case there will be a 100% fee refund for registered participants. If a registered participant cancels less than 10 days before the start of class (training) they will forfeit 50% of the registration fee.