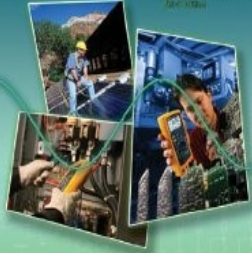


TROUBLESHOOTING ELECTRICAL/ELECTRONIC SYSTEMS



atp

Glen A. Mazur
Thomas E. Proctor

Troubleshooting Workshop

Meters, Relays, Harmonics, Grounding and more...

Taught by National Author, Glen Mazur.
Author of over 45 books including
"Troubleshooting Electrical Systems"

Go to www.tinyurl.com/2013-glen to see a listing of the books



What you'll learn in Session 1:

- Improve your troubleshooting skills.
- Know what meter type to use and what your meter reading means.
- Knowledge of troubleshooting new problems, such as harmonics, transients, and overloaded neutrals.
- Common electrical problems will be covered using test circuits, such as improper grounding, voltage flat topping, poor power factor, and correcting power problems.
- Learn to use Min/Max, Relative, Peak and Hold functions when troubleshooting.
- Determine type of any 3 phase motor and how to connect it without the nameplate.
- Determine how to connect, program, and troubleshoot VFDs.

What you'll learn in Session 2:

- Learn how to test and wire any IEC (imported) Wye/Delta 3-phase motor w/out using the motors wiring diagram and what the expected readings should be before power is applied and how to troubleshoot after power is applied
- Connecting the drives control circuit to different types of sourcing and sinking inputs, to control motor starting, stopping, jogging, and direction of rotation
- Difference between troubleshooting electromechanical and solid state components
- Connect a motor drive to control the speed of a motor using analog inputs (solar panels, potentiometers, etc.)
- Connecting and testing circuits that include a PLC for controlling the circuit
- Testing procedures for testing for phase loss, improper phase sequence, voltage imbalance, & current imbalance

Who should attend: Electrical Contractors, Project Managers, Technicians, Journeymen Electricians, Instructors

Each student will use at least 10 different meters and attachments during this hands-on class.

When **Session 1: Monday, October 23, 2017** **8:00 am - 5:00 pm**
 Session 2: Tuesday, October 24, 2017 **8:00 am - 5:00 pm**

Where **Training Room #3, IEC Training Center; 8 Long Lane Mechanicsburg, PA 17050**

Limited to 20 students working at 10 lab stations

IEC Member Price: \$260/session includes lunch

Non IEC Member Price: \$350/session

Company name: _____ Phone: _____

Session 1 (10/23/17) Attendees:

Session 2 (10/24/17) Attendees:

____ I am an IEC member, please invoice me. Authorized signature: _____

Non-members must submit payment no later than 10/20/17.

Deadline to register is 10/20/17. Email this form to register.



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