

HANDS-ON DIGITAL MULTIMETER BASICS

WE IMPROVE WORKPLACE SAFETY & PERFORMANCE

TRAINING DESCRIPTION:

By attending this seminar, you will learn to read your digital multimeter (DMM). This seminar is hands-on from the moment the instructor greets you in the morning until he sends you home. You will complete exercises where you will measure AC and DC voltage and current, resistance, continuity, capacitance, and more. You will learn to use your meter in troubleshooting procedures and significantly reduce your downtime.

Through these hands-on activities you will gain confidence working with DMMs that you never had before. In today's fast-paced, high-tech industrial environment, it is a must that anyone involved in machine repair be knowledgeable in the operation of DMMs. A slight mistake with a DMM can destroy the meter and possibly cause you a serious injury or damage the equipment you are supposed to be repairing.

This class will teach you how to use a DMM with an emphasis on troubleshooting. You will learn to test electric motors, capacitors, transformers, heating elements, diodes, and much more. You will also learn the proper way to test a fuse in and out of the circuit.

It is necessary for attendees to bring a digital multimeter with them to this hands-on seminar. You will benefit from this course regardless of the type of digital multimeter you use.

REMEMBER: Attendees should bring a multimeter, preferably the one they use on the job, with them for this hands-on training.

TRAINING TOPICS:

- Meter Familiarization Settings
- Manual Vs. Autoranging Specifications

METER SAFETY

- Common Hazards
- Inspection
- IEC 61010
- Category
- Solenoid Meters
- Case Studies

ELECTRICAL & METER FUNDAMENTALS

- Voltage
- Current
- Resistance
- Power
- Prefixes
- Voltage Lab
- Average Vs. RMS
- Thermocouples
- Current Lab
- Amp Clamps
- Resistance Lab
- Continuity
- Heating Elements
- Ohm's Law
- Power Law
- Ohm's Law Lab
- Capacitance
- Diodes & Lab
- MINMAX & Lab
- Frequency
- Meter Recall



CLASS DISCUSSION AND REVIEW

**1-DAY
TRAINING**

CLASS SIZE: UP TO 14
CLASS LENGTH: 6 HOURS
CLASS NUMBER: S_E711

Lewellyn
TECHNOLOGY