

Call 1-877-978-7246



MULTIMETER OPERATION, APPLICATION, & TROUBLESHOOTING

Course Topics Include – Multimeter Basics, Features and Applications, and Troubleshooting

With an emphasis on safety, the course covers multimeter basics



Learning Objectives:

- Category Ratings
- Understanding the Display
- Dangers of Using the Wrong Meter
- How to Verify an Electrically Safe Working Condition
- Properly Check for Voltage, Current and Resistance
- Effective troubleshooting of electrical components and systems
- Safely Use a Multimeter
- Efficient equipment repair

- Reserve your space now either **online** or by calling us at **1-877-978-7246!**
- Check us out online at **live.tpctraining.com** for a complete list of all virtual and in-person seminars.
- This seminar is also available for **Virtual** or **In-Person Private Group Training**



SEMINAR OVERVIEW

This virtual, instructor-led Electrical Multimeter Operation, Application, and Troubleshooting course is perfect for new users and veteran journeymen alike. With an emphasis on safety, the course covers multimeter basics such as category ratings, understanding the display, dangers of using the wrong meter, how to verify an electrically safe working condition, and common mistakes that result in injury. Attendees will learn how to properly check for voltage, current and resistance and then apply those measurements to effectively troubleshoot electrical components and systems.

Additional functionality found on many meters, including Hold; Min/Max; Ranging; Low Z; 4-20 mA output, and temperature will be discussed to allow attendees to be able to utilize their multimeter to the fullest. Other test instruments are discussed as well, such as analog meters, voltage testers, megohmmeter, and the latest advances.

Throughout the class, students will participate in hands-on interactive simulations to understand not only how to safely use a multimeter, but how to interpret the measurements and use them to troubleshoot and repair equipment quickly and efficiently.

WHAT YOU WILL TAKE HOME

- A laminated, full-color TPC Training Reference Guide detailing all the “must know” information covered in the class. Keep this with you while on the job for immediate knowledge recall.
- Comprehensive classroom materials
- A Personalized Training Certificate with 0.8 TPC Training Continuing Education Units.
- All the information you need from asking our instructors specific questions about your own unique equipment or facility.

CONTINUING EDUCATION

Upon completion of this seminar, the student will receive a Certification of Completion and .8 TPC Training CEUs per day attended. Most employers and many government agencies accept TPC Training CEUs to fulfill their continuing education requirements. If the student needs CEUs to renew a state license, please contact us at 303-867-5039 to ensure the state licensing board has approved the seminar. If we are currently not approved by your state licensing board, we are happy to begin the process as long as we receive your request at least one month before the training date.

DISCUSSION TOPICS

Multimeter Basics

- How to Select the Proper Multimeter
- Understanding Features and Maximum Ratings
- Multimeter Safety Category Ratings
- Proper Applications
- Dangers of Improper Usage
- Verifying an Electrically Safe Work Condition

Features and Applications

- Measuring Voltage, Resistance and Current
- Types of Meters
- Ranging and Resolution
- AC vs. DC Measurements
- Analog vs. Digital Meters
- Testing for Continuity
- Measuring Capacitance
- Testing Diodes
- How to use Min/Max feature.
- 4-20mA Output Signals
- Other important features

Troubleshooting

- Multimeter Best Practices
- Testing Fuses
- Troubleshooting Switches, Relays, and Motor Starters
- Troubleshooting Control Circuits
- Multimeter vs. Megohmmeter
- Proper Use of Megohmmeter
- Troubleshooting Electric Motors
- Voltage Testers
- Introduction to Other Testing Tool

JOIN OUR CLASSROOM SEMINARS FROM VIRTUALLY ANYWHERE

Our virtual instructor-led training option allows students to connect to a live classroom seminar via a web link, with the ability to participate full in the classroom dialogue, exercises, and Q&A. Online participants get all the benefits of the full classroom experience, plus the convenience of remote access.

Features include

- One full day of live, interactive instruction from a TPC Training instructor
- All classroom materials in PDF format
- Certificate of completion for 8 hours of live training
- Full technical support to ensure your online experience is a rewarding one

SEMINAR FEE & AGENDA

This 1-day course is just \$595 (Earn 0.8 CEUs)

7:30 am	Registration
8:00 am	Class Begins
12:00 -1:00 pm	Lunch (on your own)
4:30 pm	Class Ends

NO RISK REGISTRATION & MONEY-BACK GUARANTEE

You can reserve your space in the class at any time and cancel without penalty. Cancellations made more than 14 days prior to the seminar may be refunded or rescheduled. Cancellations made within 14 days may be rescheduled for any future topic and/or date. If you're not satisfied with the course, we'll promptly refund your payment.

BRING THE TRAINING TO YOUR FACILITY VIRTUALLY OR IN-PERSON

Every public seminar class in our Course Catalog can be conducted virtually or on-site at your facility, with the same expert instructors. To arrange an in-person private group training, call or email us at virtual@tpctraining.com.

Some Advantages of In-Person Private Group Training

- Cost Savings — Save time and travel costs by keeping workers on-site
- Customized Content — Tailor the seminar to your facility and equipment
- Flexibility — Accommodate multiple shifts and different start and end times