

# Multi-Meters – Electrical Test Instrument Safety

The tools to maintain and troubleshoot ever advancing workplace technology have presented new challenges to workplace safety. No longer can an employer simply assume a competent electrical worker, even those with many years' experience, understands how to properly select and use test instruments available today. Employers must be able to justify that any electrical worker under their supervision or control has the skills to properly select an appropriate test instrument, safely use that instrument to make energized or deenergized contact with electrical parts and how to interpret the readings shown. Most important is the concept of fully understanding any limitations presented from the instruments chosen. In the thousands of electrical incidents and hundreds of fatalities recorded each year, many have been attributed to improper use of electrical test instruments.



Lecture

Hands-on



Duration

4 hours



LIVE ONLINE TRAINING

0.5 Days



ONSITE - IN CLASS TRAINING

0.5 days

## WHAT THIS COURSE COVERS

- Electrical hazards encountered while using test instruments
- Selection of instruments appropriate to the need and hazard
- Inspection of test instruments before, during and after use
- Establishing areas of safety around equipment to be tested
- Safe work practices appropriate to the test instruments chosen

## WHO SHOULD TAKE THIS

- Apprentices and experienced HVAC technicians
- Maintenance Technicians
- Machine Operators
- HVAC maintenance & Repair Technicians
- Energy Management Personnel
- Fire Alarm Technicians
- Electricians
- Plant & Facility Maintenance Technicians
- Building Engineers
- Stationary Engineers

## COURSE OUTCOMES

- Be prepared to use test instruments using safe work practices properly.
- Know how to select the correct instrument for the electrical hazards faced.
- Demonstrate how to use test instruments in a safe manner.

## COURSE AGENDA

- Electrical Multimeter Introduction
- Electrical Safety Standards
- Multimeter Selection
- Multimeter Misuse
- Using Multimeters

