

Digital Multimeter Operation Single-Day Class

Scheduled Upon Request
(Factory or On-Site Availability Only)

HELP YOUR TECHNICIANS BUILD CONFIDENCE USING A DIGITAL MULTIMETER

A digital multimeter is one of the most important diagnostic tools a technician uses, yet it is also one of the most commonly misused. Accurate electrical testing depends not only on having the right meter, but knowing how to use it correctly and safely in real service situations.

This single day course focuses specifically on proper digital multimeter operation, with an emphasis on hands on testing and real world troubleshooting. Students will learn how to confidently use a DMM to evaluate electrical circuits and components found on refuse trucks and related equipment.

In this class, students will explore:

- Identify the components and functions of a digital multimeter
- Select the correct meter settings for different types of electrical tests
- Safely test live and non-live circuits
- Measure voltage, voltage drop, resistance, and amperage
- Apply DMM testing techniques to common electrical components
- Interpret test results to identify circuit and component issues

Through guided instruction and practical exercises, participants will gain the skills needed to use a digital multimeter accurately, safely, and consistently when diagnosing electrical problems in the field.



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Digital Multimeter Operation (DMM) Course Summary

Please Note: Students must bring their own multimeter for this class

Course Objectives

After completing this course, the student will be able to:

- Understand the components and functions of a digital multimeter (DMM) and how each is used to diagnose electrical circuit issues.
- Follow the rules for safely and accurately testing electrical circuitry, including the different types of diagnostic tests.
- Perform circuit testing to measure voltage, voltage drop, resistance, and amperage.
- Apply DMM testing techniques to evaluate components such as relays, diodes, and coils.
- Demonstrate comprehension through a knowledge check focused on how voltage, amperage, and resistance behave at various points in a circuit under different electrical conditions.

Course Outline

- 1. What is a Digital Multimeter (DMM)?** Learn the components of the DMM and how each function is used to diagnose problems in an electrical circuit.
- 2. Rules for testing circuitry.** Overview the rules for testing and the types of tests.
- 3. Testing Circuits.** Learn to test for voltage, voltage drop, resistance and amperage.
- 4. Component Testing.** Apply your DMM to test various components such as relays, diodes and coils.
- 5. Knowledge Check.** Test your knowledge by identifying how voltage, amperage and resistance reacts in an electrical circuit at different points under various electrical conditions.

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