

Module #1

ELECTRICAL FUNDAMENTALS FOR AMBULANCE TECHNICIANS

Power fundamentals: voltage, components and safe testing

- Audience: New EMS bay technicians, garage mechanics new to ambulance work
- Level: Beginner
- Prerequisite: None
- Duration: 3 hours
- Location: At your facility, at the OEM plant, or online (webinar)

Curriculum

Electrical basics

- Understanding voltage, amperage, and resistance
- Basic electrical formulas and relationships
- Types of connections and circuit flow

Components & testing

- Identifying relays, resistors, diodes, and potentiometers
- How to test components properly
- Recognizing normal vs. failed component behaviour

Tool usage & safety

- Correct use of a multimeter
- Measuring voltage, resistance, and continuity
- Safety protocols for working on 12V circuits

Ambulance specifics

- Introduction to ambulance-specific electrical logic
- Common low-voltage behaviours and protections

Key Takeaways

Participants will develop a solid understanding of electrical fundamentals, including how voltage, current, and resistance interact and how key components behave within a 12V system. They will gain confidence using a multimeter safely and accurately, enabling them to perform basic diagnostics and prepare for more advanced system work.



Official certification
at the end of the session.

**Get OEM know-how.
Make the right call.**

Enroll your team

1-800-363-7591



Course content and curriculum are subject to change without notice and may be customized based on customer requirements. This module may be delivered individually or combined with other modules as part of a customized training program. For more information, please contact your Customer Care Specialist.

Demers Ambulances, Crestline Ambulances Customer Care Training Program
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