



## **ELECTRIC - HYBRID** **LIVE CLASSROOM TRAINING**

This live classroom training course covers diagnostic and repair techniques for automotive technicians working with high-voltage vehicles.

The course covers the components that make these vehicles unique and delves deep into their operation, their specialized components and effective diagnostic procedures. It also extensively covers the most critical subject of the lessons: safety. This class explains the vehicle's workings, preparing the vehicle for safe diagnostic interaction, proper personal protective equipment for the technician, and recommended tools.

Topics include: electricity fundamentals and testing procedures, wiring schematics, hybrid/EV configurations and components, safety, regenerative braking, EV cooling systems, scan tool diagnostics and much more.

**9 Minimum Study Hours**

### **COURSE OBJECTIVES:**

- ✓ Understand the fundamental theories of electricity and electrical current
- ✓ Communicate on how to test electric circuits
- ✓ Generalize the different types of electric and hybrid electric vehicles
- ✓ Understand personal protective equipment and the procedures to follow
- ✓ Understand electric vehicle shut down and disabling procedures
- ✓ Describe electric vehicle diagnostic procedures
- ✓ Communicate on high voltage battery technology and components
- ✓ Describe high voltage component testing, removal, and replacement
- ✓ Illustrate hybrid and electric vehicle maintenance procedures



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