HYBRID VEHICLE IDENTICATION AND DAMAGE ANALYSIS

GE050E01

Course Format: Online training with posttest

I-CAR Credit Hours: 1 hour

Points: 0.25

This course helps satisfy ProLevel training requirements for the following roles:

- Non-Structural Technician
- Estimator
- Structural Technician
- Assessor
- Refinish Technician
- Production Management

Course Content

Module 1—Types of Hybrid Vehicles

At the end of this module, the learner will be able to describe the different types of hybrid vehicles. Additionally, this module identifies the parts of a hybrid vehicle in the vehicle's high voltage system.

Module 2— Hybrid Vehicle Identification and Handling

Hybrid vehicles are equipped with a high-voltage electric propulsion system. It is critically important to be safe when working on or around these vehicles. This module provides information on how to identify hybrid electric vehicles using badging and VINs. The module concludes with an explanation on how to approach and safely move a damaged hybrid vehicle.

Module 3— Hybrid System Features and Disabling

This module provides common procedures for safely disabling a hybrid system so technicians can work on the vehicle structure. An overview of features specific to hybrid vehicles, such as regenerative braking and added sound to alert pedestrians, is given. Finally, this module explains the different types of cooling systems used on the high voltage battery and the inverter/ converter.

Learning Objectives

- Explain the different types of hybrid electric vehicles and how they work
- Identify parts of a hybrid vehicle that are high voltage
- How to determine if a vehicle is a hybrid vehicle
- How to work safely around a damaged hybrid vehicle
- Explain common steps used to disable a hybrid system