WINDSHIELDS AND ADVANCED DRIVER ASSIST SYSTEMS (ADAS)

VT250E01

Course Format: Online training with posttest

I-CAR Points: 0.25

Estimated Duration: 1 hour

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

 Non-Structural Technician

 Assessor

 Structural Technician

 Estimator

 Aluminium Technician

 Production Management

Advanced Driver Assist Systems (ADAS) are becoming more prevalent in automotive manufacturing. Even with these advancements, accidents still happen. Windshields and Advanced Driver Assist Systems is a one-hour, online course that will teach technicians about systems that are related to and impacted by windshield repair, replacement, and R&I procedures. Further instruction will be provided on what technicians need to look for when determining if the system has been damaged and needs to be replaced.

Course Content

Module 1—Types of Advanced Driver Assist Systems

Module 1 begins with an introduction to driver assist systems associated with the windshield and their related repair/ replacement concerns. This module provides an overview of some of these systems and how they assist the driver. These include:

- Lane departure warning and lane keep assist systems
- Collision mitigation systems
- Pre-collision systems
- Automatic high-beam assist system
- Night vision systems
- Head-up displays
- Automatic Windshield Wipers

Students will also learn how to visually inspect ADAS parts and determine if they need to be replaced.

Module 2— ADAS Part Removal, Installation and Calibration

Module 2 will cover windshield removal and replacement. Students will learn how to identify if the vehicle is equipped with an ADAS system and special considerations for removal and replacement for the windshield with ADAS parts. This module will conclude with the discussion on calibration requirements and safety concerns.

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Module 2 covers concerns for:

- Windshield replacement
- HUD glass replacement
- Camera removal and installation
- Rain sensor removal and installation
- High-beam assist sensors
- Night vision cameras

Next, Module 2 will discuss determining calibration requirements including:

- Static Camera Aiming
- Dynamic Camera Aiming

The module will conclude with safety and liability concerns if any ASAS cannot be calibrated by the repair service. This includes recommendations for communicating and non-functioning ADAS to the vehicle owner and retaining documentation.

Learning Objectives

- Identify various types of windshield damage
- Identify various types of driver assist systems
- Understand and describe how the various types of ADAS work
- Be able to identify some of the issues regarding removing or replacing windshields connected to ADAS
- Identify ADAS parts located near or attached to the windshield
- Remove ADAS parts and store properly
- Install ADAS parts
- Identity the two primary types of calibration