



**Australian Government**

# **Assessment Requirements for AURETR149**

## **Apply knowledge of ADAS technology in vehicle pre-repair scans**

**Release: 1**

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## Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

## Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- conduct a pre-repair scan on at least three different vehicles or machinery.

In the course of the above, the candidate must:

- identify and locate the presence of ADAS on each of the vehicles or pieces of machinery
- identify tasks where ADAS technology must be recalibrated by an authorised repairer or dealer.

## Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to apply knowledge of ADAS technology during vehicle pre-repair scans, including:
  - information provided by customer and supervisors
  - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to apply knowledge of ADAS technology during vehicle pre-repair scans, including:
  - establishing serviceability of tools and equipment
  - escalation of tasks to authorised external repairers or dealers
  - using diagnostic scan tools and interpreting fault codes
  - documentation procedures
  - housekeeping procedures, including:
    - examination of tools and equipment
    - storage of equipment
    - identification, tagging and isolation of faulty equipment

- disposal of excess materials
  - recycling procedures
- work health and safety (WHS) requirements relating to repairing ADAS, including procedures for:
  - using specialised tools and equipment
  - selecting and using personal protective equipment (PPE)
  - identifying hazards and controlling risks associated with wearing jewellery while working around electrical systems
- external repairers authorised to diagnose and repair ADAS technology including:
  - original equipment manufacturers
  - dealerships
- key features, components and operating principles of ADAS, including:
  - sonar sensors
  - radar, light detection and ranging (LIDAR) and cameras
- types of ADAS, including:
  - adaptive cruise control
  - collision avoidance
  - blindspot detection
- techniques for reading and interpreting technical information
- common types of faults, including:
  - connector damage
  - terminal damage
  - bent brackets
- visual inspection procedures for damage to ADAS and related components, including:
  - mirror measurements
- diagnostic testing procedures for ADAS and their limitations, including:
  - accessing and interpreting scan tool system data
    - diagnostic trouble codes (DTCs)
    - live data
  - variations in scan tool system data where manufacturer specifications are not present
- safety implications for customers in diagnosing ADAS faults.

## Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the knowledge of ADAS they have applied, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- automotive repair workplace or simulated workplace
- workplace instructions
- manufacturer ADAS specifications or equivalent documentation
- three different vehicles.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>