



Australian Government

Assessment Requirements for AURVNA107 Apply automotive mechanical and electrical knowledge to vehicle loss assessments

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:

- undertake each of the following on at least one occasion:
 - apply automotive mechanical and electrical knowledge to vehicle loss assessment processes, procedures and policies
 - apply latest automotive technology knowledge and knowledge of specific vehicle types to vehicle loss assessment processes, procedures and policies
 - identify vehicle mechanical and electrical damage.

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 automotive mechanical and electrical knowledge to vehicle loss assessments, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
 - workshop manuals
 - subject matter experts
- workplace procedures required to apply automotive mechanical and electrical knowledge to vehicle loss assessments, including:
 - documentation, recording and reporting procedures
 - use of digital images
- motor vehicle mechanical systems and components, including:
 - damage and faults
 - dismantling and repair methods
- motor vehicle operating principles of electrical and electronic systems and components, including:

- damage and faults
- dismantling and repair methods
- batteries and charging systems
- electrical circuits
- electronic body and drive management systems
- electronic spark ignition engine management system
- ignition systems
- starting systems
- lights and vehicle sensors
- motor vehicle operating principles of mechanical systems and components, including:
 - brake systems, including:
 - air braking system
 - anti-lock braking system (ABS)
 - autonomous braking system
 - hydraulic braking system
 - stability control
 - engine and fuel systems, including:
 - cooling system
 - emission control system
 - engine components
 - fuel system
 - suspension and steering systems, including:
 - dependant suspension
 - independent wishbone suspension
 - double wishbone suspension
 - McPherson strut suspension
 - transmission and driveline assembly, including:
 - automatic and manual transmission
 - clutch assembly
 - driveline
 - final drive assembly
- technical knowledge relating to a specific vehicle type, including light vehicles, heavy vehicles, agricultural and plant equipment, recreational vehicles and motorcycles
- technical knowledge of latest technology relating to mechanical, electrical and electronic motor vehicle repair, including repair of battery electric vehicles (BEV) and hybrid vehicles
- vehicle inspection and damage assessment procedures and methodologies, including repair set-ups and dismantling procedures
- current assessing and quoting methodologies
- relevant automotive websites to locate current best practice and future trends

- applicable commonwealth, state or territory laws, regulations and standards relating to vehicle loss assessment and reporting requirements, including:
 - environmental regulations
 - intellectual property
 - legislation
 - applicable Workplace Health and Safety Act.

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 vehicles that they have assessed, e.g. assessment reports.

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

The following resources must be made available:

- a range of vehicles with mechanical and electrical damage
- relevant information including OEM or authorised agencies repair procedures, component supplier specifications and repair guides
- relevant materials and resources.

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>