



Australian Government

Assessment Requirements for AURETR104 Diagnose complex faults in convenience and entertainment systems

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:

- diagnose a complex fault in the convenience and entertainment systems of two different vehicles, vessels or machinery in which the work for each must involve a different complex fault selected from the following:
 - an intermittent fault
 - a fault that affects more than one system
 - a fault introduced as a result of a system repair
 - an indirect fault caused by the influence of external systems
- develop a testing strategy to diagnose the cause of the complex faults in the above two vehicles.

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 diagnose and repair complex faults in convenience and entertainment systems, including:
 - convenience and entertainment system manufacturer specifications
 - workplace procedures
- workplace procedures required to diagnose and repair complex faults in convenience and entertainment systems, including:
 - establishing the serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment

- safe disposal of materials
- recycling procedures
- workplace health and safety (WHS) requirements relating to diagnosing complex faults in vehicle convenience and entertainment systems, including procedures for identifying hazards and controlling risks associated with:
 - working around vehicle supplementary restraint systems (SRS), including airbags
 - wearing jewellery while working around high electrical currents
- environmental requirements relating to convenience and entertainment systems
- types of complex faults relating to vehicle convenience and entertainment systems, including:
 - intermittent
 - multi-system
 - introduced as a result of system repair
 - indirect, caused by the influence of external systems
- key features of convenience and entertainment systems in vehicles, vessels or machinery, including:
 - infotainment systems
 - telematics systems
 - intelligent transport systems
 - safety restraint systems
 - passenger comfort systems
- testing procedures for vehicle convenience and entertainment systems, including:
 - using digital multimeter, scan tool and oscilloscope
 - component wear analysis
 - system operation analysis
 - vehicle continuous and non-continuous monitored systems
- key features and limitations of diagnostic testing equipment required to diagnose complex faults in vehicle convenience and entertainment systems
- procedures for accessing and interpreting scan tool system data, including:
 - diagnostic trouble codes (DTCs), including:
 - conditions that set the DTCs
 - conditions for running DTCs.

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 convenience and entertainment systems that they have worked on, 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 convenience and entertainment system specifications
- two different vehicles, vessels or machinery with complex faults in their convenience and entertainment systems
- convenience and entertainment system electrical and electronic system diagnostic equipment, including:
 - digital multimeter
 - scan tool
- tools, equipment and materials appropriate for diagnosing complex faults in convenience and entertainment systems.

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>