



Australian Government

Assessment Requirements for AURLTB104

Diagnose complex faults in light vehicle braking 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 three different light vehicle braking systems, including one anti-lock braking system, in which the work for each must involve a different complex fault chosen 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 fault in each of the above three light vehicle braking systems.

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 complex faults in light vehicle braking systems, including:
 - light vehicle braking system manufacturer specifications
- workplace procedures required to diagnose complex faults in light vehicle braking 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 light vehicle braking systems, including procedures for managing and controlling brake dust and brake fluid
- environmental requirements, including procedures for trapping, storing and disposing of fluids and material released from braking systems
- types of complex faults relating to light vehicle braking systems, including:
 - intermittent
 - multi-system
 - introduced as a result of system repair
 - indirect, caused by the influence of external systems
- types, functions and operation of light vehicle braking systems, including mechanical, hydraulic and electronic subsystems
- testing procedures for light vehicle braking systems, including procedures for:
 - vehicle dynamic and static testing
 - abnormal noise analysis
 - component failure analysis
- types, and key features of diagnostic testing equipment required to diagnose complex faults in light vehicle braking 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
 - live data
 - waveforms
 - vehicle continuous and non-continuous monitored systems.

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 light vehicle braking 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 light vehicle braking system specifications

- three different light vehicles with complex faults in their braking systems, including a vehicle with an anti-lock braking system
- light vehicle braking system diagnostic equipment, including scan tool
- tools, equipment and materials appropriate for diagnosing complex faults in light vehicle braking 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>