



Australian Government

Assessment Requirements for AURLTB002

Analyse and evaluate faults in light vehicle braking systems

Release: 1

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Modification History

| Release | Comment |
|-----------|-------------------------|
| Release 1 | New unit of competency. |

Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- analyse and evaluate a fault in the:
 - hydraulic braking system of a light vehicle
 - mechanical braking system of a different light vehicle
 - electronic braking system of a third light vehicle.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to analysing and evaluating faults in light vehicle braking systems, including procedures for working with brake friction materials
- environmental requirements, including procedures for managing and controlling brake dust and brake fluid released from braking systems
- principles and processes involved in planning and implementing analysis and evaluation of light vehicle braking system faults
- design and planning of diagnostic procedures of light vehicle braking system faults, including procedures for diagnosing:
 - hydraulic faults
 - mechanical faults
 - electrical faults
- procedures for analysing and evaluating light vehicle braking system faults, including:
 - system failure analysis
 - component failure analysis

- types, functions, operation and limitations of the following systems, including:
 - disc and drum assemblies
 - parking brake
 - hydraulic components, including:
 - master cylinder
 - braking system valves and switches
 - electronic systems, including:
 - anti-lock braking systems (ABS)
 - electronic braking systems (EBS)
- testing procedures for light vehicle braking systems, including:
 - disc and drum assemblies
 - parking brakes
 - hydraulic components
 - electronic components
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in light vehicle braking systems
- procedures for documenting and reporting the analysis and evaluation process
- requirements of Australian Design Rules (ADRs) relating to light vehicle braking systems.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

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 faults in the braking systems specified in the performance evidence
- diagnostic equipment for light vehicle braking systems
- tools, equipment and materials appropriate for analysing and evaluating light vehicle braking systems.

Links

Companion Volume implementation guides are found in VETNet -

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

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