



Australian Government

Assessment Requirements for AURLTE003 Analyse and evaluate faults in light vehicle engine and fuel 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:
 - engine system of a light vehicle
 - fuel system of a different light vehicle
 - engine or fuel 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 engine and fuel systems, including procedures for working with:
 - hot engine components and rotating engine components
 - hazardous substances, including:
 - diesel fuel
 - petrol fuel
 - engine oil and coolants
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from engine and fuel systems
- principles and processes involved in planning and implementing analysis and evaluation of light vehicle engine and fuel system faults
- design and planning of diagnostic procedures of light vehicle engine and fuel system faults, including procedures for diagnosing:
 - hydraulic faults

- mechanical faults
- electrical faults
- procedures for analysing and evaluating light vehicle engine and fuel system faults, including:
 - system failure analysis
 - component failure analysis
- types, functions, operation and limitations of the following engine and fuel systems:
 - petrol engines
 - diesel engines
 - petrol fuel systems
 - diesel fuel systems
- testing procedures for light vehicle engine and fuel systems, including:
 - engine performance under load
 - fuel flow and pressure
 - cooling system performance under load
 - oil pressure
 - exhaust flow
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in light vehicle engine and fuel systems
- procedures for documenting and reporting the analysis and evaluation process
- requirements of Australian Design Rules (ADRs) relating to light vehicle engine and fuel 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 engine and fuel 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 engine and fuel system specifications
- three different light vehicles with engine and fuel system faults
- diagnostic equipment for light vehicle engine and fuel systems

- tools, equipment and materials appropriate for analysing and evaluating light vehicle engine and fuel 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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