



Australian Government

Assessment Requirements for AURLTE001 Remove and install light vehicle engine assemblies

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:

- remove and install:
 - one front wheel drive engine assembly with water cooling
 - one rear wheel drive engine assembly with water cooling.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to removing and installing light vehicle engines, including procedures for:
 - using engine lifting devices and supporting equipment
 - handling oils, fuels and coolant
- environmental requirements, including procedures for trapping, storing and disposing of oils, fluids, coolants and gases released from engine assemblies
- licensing requirements relating to removing and installing engines fitted with alternative fuels and energy sources
- methods of disconnecting related systems, including:
 - air conditioning system
 - cooling system
 - electrical systems
 - exhaust system
 - fuel system
 - power steering system
 - transmission systems, including:

- automatic transmission
- manual transmission
- removal procedures for engine assemblies, including item tagging procedures
- installation procedures for engine assemblies
- post-installation testing and adjustment procedures for engine assemblies, including:
 - pre-start procedures
 - operational testing and run-in procedures
 - engine adjustments and cylinder head bolt re-tensioning as required
 - throttle adjustments
 - coolant adjustments
 - ancillary engine 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 assemblies that they have removed and installed, 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 assembly specifications
- two different light vehicle engine assemblies as specified in the performance evidence
- tools, equipment and materials appropriate for removing and installing light vehicle engine assemblies, including engine lifting devices and supporting equipment.

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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