



Australian Government

Assessment Requirements for AURTTL015 Develop and apply gas fuel system modifications

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:

- develop and apply the following significant and non-routine modifications on the gas fuel systems of two different vehicles or machinery:
 - adapt or modify gas fuel system to a significantly changed capability
 - adapt gas fuel system for different work conditions
 - modify or install a significant gas fuel system for a special purpose.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to developing and applying gas fuel system modifications, including procedures for working with extremely cold and flammable gas
- environmental requirements, including procedures for preventing loss of gas to atmosphere
- principles and processes involved in planning and implementing modifications to gas fuel systems
- types, functions, operation and limitations of gas fuel systems being modified, including:
 - liquefied petroleum gas (LPG)
 - compressed natural gas (CNG)
 - liquefied natural gas (LNG)
- types, functions, operation and limitations of diagnostic testing equipment required for gas fuel system modifications
- associated vehicle systems and their impact on gas fuel system operation

- requirements of Australian Design Rules (ADRs) and Vehicle Safety Bulletins (VSBs) relating to gas fuel system modifications
- procedures for documenting and reporting the modification specifications and outcomes.

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 gas fuel systems that they have modified, 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 gas fuel system specifications
- ADRs and Vehicle Safety Bulletins (VSBs) relating to gas fuel system modifications
- two different vehicles or machinery requiring gas fuel system modification
- tools, equipment and materials appropriate for carrying out gas fuel system modifications.

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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