



Australian Government

Assessment Requirements for AURTTL006 Install LNG 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:

- install one complete liquefied natural gas (LNG) fuel system in a 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 installing LNG fuel systems, including procedures for working with extremely cold and flammable gas
- environmental requirements, including procedures for preventing loss of gas to atmosphere
- requirements of AS/NZS 2739 Natural gas (NG) fuel systems for vehicle engines, including:
 - containers and fuel system components
 - fuel service lines and materials
 - fuel control equipment
 - inspection, testing and commissioning requirements
- Australian standard inspection, testing and commissioning requirements
- LNG system adjustment procedures, including exhaust gas analysis
- Australian standard certification, compliance plate, and marking and label requirements.

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 LNG fuel systems that they have 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
- AS/NZS 2739 Natural gas (NG) fuel systems for vehicle engines
- manufacturer vehicle LNG system specifications
- one vehicle requiring installation of an LNG fuel system
- LNG installation kit, including:
 - fill valve and fill hose
 - fuel container and mounting
 - service line
 - vaporiser
 - regulator
 - safety lock-off devices
 - mixers or injectors
 - associated electrical and electronic system, including selector and safety switches
 - compliance plates
- testing equipment for LNG fuel systems, including exhaust gas analyser
- tools, equipment and materials for installing LNG 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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