



Australian Government

Assessment Requirements for AURTTL004 Inspect and service 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:

- inspect and service the following liquefied natural gas (LNG) fuel systems:
two different light vehicle LNG fuel systems or
two different heavy commercial vehicle LNG fuel systems or
 - two different forklift LNG fuel systems.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to inspecting and servicing LNG fuel systems, including procedures for:
 - working with a lighter-than-air flammable gas
 - avoiding cold burns
 - storing LNG
- environmental requirements, including procedures for preventing loss of gas to atmosphere
- licensing requirements for working on LNG systems
- identification and function of LNG fuel system components
- basic operation of LNG fuel systems
- requirements of AS/NZS 2739 Natural gas (NG) fuel systems for vehicle engines
- inspection procedures for LNG fuel systems, including:
 - leakage check
 - LNG container identity

- container life
- container recertification date
- container corrosion and damage
- container attachment
- automatic fuel shut-off device
- manual valves
- compartment and sub-compartment refuelling connection
- refuelling interlock device
- flexible piping and hoses
- ground clearances
- vehicle identification, including identification markers
- service and adjustment procedures for LNG fuel systems, including checking compliance of fuel system emissions
- post-service testing procedures for LNG 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 vehicle LNG 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
- AS/NZS 2739 Natural gas (NG) fuel systems for vehicle engines
- manufacturer servicing schedules and vehicle LNG fuel system specifications
- vehicles and machinery specified in the performance evidence with operating LNG fuel systems requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing 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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