



Australian Government

Assessment Requirements for AURTTL007 Inspect and service LPG 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 petroleum gas (LPG) fuel systems:
 - two different light vehicle LPG fuel systems

or

two different heavy commercial vehicle LPG fuel systems or

- two different forklift LPG 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 LPG fuel systems, including procedures for:
 - working with heavier-than-air flammable gas
 - avoiding cold burns
 - storing LPG
- environmental requirements, including procedures for preventing loss of gas to atmosphere
- licensing requirements for working on LPG systems
- identification and function of LPG fuel system components
- basic operation of LPG fuel systems
- requirements of AS/NZS 1425 LP Gas fuel systems for vehicle engines
- inspection procedures for LPG fuel systems according to relevant Australian standards, including:

- leakage check
- fuel container life
- container corrosion and attachment checks
- accuracy of the automatic fuel limiter
- operation of fuel containment system, including testing automatic fuel shut-off device
- fuel control systems, including automatic fuel shut-off device and fuel selector
- manual valves
- compartment or sub-compartment
- filler connection
- hydrostatic relief valve
- safety valve system
- liquids
- ground clearances
- vehicle identification, including identification markers
- service and adjustment procedures for LPG fuel systems, including:
 - draining oil from converters
 - checking compliance of fuel system emissions
- post-service testing procedures for LPG 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 LPG 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 1425 LP Gas fuel systems for vehicle engines
- manufacturer servicing schedules and vehicle LPG fuel system specifications
- vehicles and machinery specified in the performance evidence with operating LPG fuel systems requiring servicing
- tools, equipment and materials appropriate for inspecting and servicing LPG 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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