



**Australian Government**

# **Assessment Requirements for AURTTL010 Install LPG, CNG and LNG electrical control equipment**

**Release: 1**

# Assessment Requirements for AURTTL010 Install LPG, CNG and LNG electrical control equipment

## 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 standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- install one piece of liquefied petroleum gas (LPG), compressed natural gas (CNG) or liquefied natural gas (LNG) electrical control equipment 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 LPG, CNG and LNG electrical control equipment, including procedures for:
  - working with extremely cold and flammable gas
  - avoiding ignition of flammable gas when working on electrical systems
- environmental requirements, including procedures for preventing loss of gas to atmosphere
- requirements of Australian standards relating to installing LPG, CNG and LNG electrical control equipment:
  - AS/NZS 2739 Natural gas (NG) fuel systems for vehicle engines
  - AS/NZS 1425 LP Gas fuel systems for vehicle engines
- properties of LP, CN and LN gases
- operating principles of LPG, CNG and LNG electrical control equipment
- post-installation testing procedures for LPG, CNG and LNG electrical control equipment, including fuel trim and exhaust gas analysis.

## 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 LPG, CNG and LNG electrical control equipment they have installed in vehicles, 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
- AS/NZS 1425 LP Gas fuel systems for vehicle engine
- manufacturer specifications for vehicle LPG, CNG or LNG systems
- one piece of LPG, CNG or LNG electrical control equipment requiring installation
- testing equipment for LPG, CNG or LNG electrical control equipment
- tools, equipment and materials for installing LPG, CNG or LNG electrical control equipment.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>