



Australian Government

Assessment Requirements for AURTTL104 Inspect and service LNG fuel systems

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

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

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to inspect and service LNG fuel systems, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to inspect and service LNG fuel systems, including:
 - establishing serviceability of tools and equipment
 - documentation procedures
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment
 - identification, tagging and isolation of faulty equipment
 - disposal of excess materials
 - recycling procedures
- work health and safety (WHS) 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

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.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

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