



Australian Government

**Assessment Requirements for AURHTL101
Inspect, diagnose and repair alternative fuel
systems in heavy vehicle engines**

Release: 1

Assessment Requirements for AURHTL101 Inspect, diagnose and repair alternative fuel systems in heavy vehicle engines

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, diagnose and repair alternative fuel systems in two different heavy vehicle engines.

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 diagnose and repair alternative fuel systems in heavy vehicle engines, including:
 - information provided by customers and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to diagnose and repair alternative fuel systems in heavy vehicle engines, 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
- workplace health and safety (WHS) requirements relating to inspecting, diagnosing and repairing alternative fuel systems, including procedures for:
 - working with alternative fuel systems
 - selecting and using personal protective equipment (PPE)

- environmental requirements relating to inspecting, diagnosing and repairing alternative fuel systems, including procedures for preventing fuel leakage from fuel systems
- operating principles of alternative fuel systems
- application and function of alternative fuel systems
- inspect and repair procedures for alternative fuel systems
- diagnostic testing procedures for alternative fuel systems
- post-repair testing procedures for alternative 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 alternative fuel systems that they have inspected and repaired, 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
- manufacturer alternative fuel system specifications
- two different heavy vehicle engines with alternative fuel systems requiring repair
- diagnostic equipment for alternative fuel systems, including exhaust gas analyser
- repair tools, equipment and materials for alternative fuel systems in heavy vehicle engines.

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>