



Australian Government

AURHTF001 Inspect heavy commercial vehicle fuel systems

Release: 1

AURHTF001 Inspect heavy commercial vehicle fuel systems

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to inspect heavy commercial vehicle fuel systems and components according to manufacturer specifications. It involves preparing for the task, inspecting the system, and completing workplace processes and documentation.

It applies to those undertaking a Vocational Education and Training in Schools (VETiS) or pre-vocational qualification as preparation to entering the automotive service and repair or automotive manufacturing industry.

The unit is designed for use in a highly supervised context and is not suitable for use in a vocational qualification.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Competency Field

Mechanical - Heavy Vehicle

Unit Sector

Technical - Fuel Systems

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to inspect fuel system and components	1.1 Task instruction is interpreted and vehicle to be worked on is identified 1.2 Inspection information is sourced and interpreted

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
	1.3 Potential hazards and risks associated with task are identified and reported to workplace supervisor 1.4 Tools, equipment and materials are selected and checked for serviceability
2. Inspect fuel system and components	2.1 Fuel system and components are inspected according to manufacturer specifications, workplace procedures and <i>safety requirements</i> 2.2 Inspection results are compared with manufacturer specifications 2.3 Inspection findings are reported according to workplace procedures
3. Complete work processes	3.1 Final inspection is made to ensure work meets task instruction and workplace standards, and vehicle is presented ready for use 3.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 3.3 Tools and equipment are checked and stored according to workplace procedures 3.4 Workplace documentation is processed according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate appropriate information.
Reading skills to:	interpret key information from manufacturer and workshop literature when seeking inspection procedures and specifications relating to fuel systems.
Writing skills to:	legibly and accurately fill out workplace documentation using correct industry terminology and conventions.
Oral communication skills to:	participate effectively in verbal exchanges using questioning and active listening to request, clarify and clearly convey information.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety requirements</i> must include:	• work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for working with: • high pressure diesel fuel systems • flammable fuels • running engines and exhaust gases.
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Unit Mapping Information

Equivalent to AURHTF2001 Inspect heavy commercial vehicle fuel systems and components

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for AURHTF001 Inspect heavy commercial vehicle fuel systems

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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:

- inspect one heavy commercial vehicle fuel system and components, including:
 - fuel tanks and fittings
 - fuel lines
 - fuel filters
 - fuel pumps
 - fuel injectors
 - water separators.

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 heavy commercial vehicle fuel systems, including procedures for working with:
 - high pressure diesel fuel systems
 - flammable fuels
 - running engines and exhaust gases
- identification, function and basic operation of heavy vehicle fuel systems and components, including:
 - fuel tanks and fittings
 - fuel lines
 - fuel filters
 - fuel pumps

- fuel injectors
- water separators
- inspection procedures for heavy commercial vehicle fuel systems and components.

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 fuel systems and components that they have inspected, 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 workplace or simulated workplace
- task instructions
- manufacturer fuel system specifications
- one heavy commercial vehicle with fuel system and components
- tools, equipment and materials appropriate for inspecting heavy commercial vehicle fuel systems and components.

Links

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