



Australian Government

Assessment Requirements for AURRTF001 Diagnose and repair petrol and diesel marine 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:

diagnose and repair a fault in three marine fuel systems fitted to different vessels. This must include at least one petrol fuel system and one diesel petrol fuel system.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to diagnosing and repairing marine fuel systems, including procedures for working with flammable fuels
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from fuel systems
- diagnostic testing procedures for marine fuel systems, including:
 - fuel pump pressure, volume and vacuum testing
 - air and fuel leak testing
 - exhaust gas analysis
- repair procedures for marine fuel systems
- post-repair testing procedures for marine fuel systems.
- knowledge of how to identify, capture and remove fumes, including:
 - understanding of ventilation requirements
 - use of bilge blower
 - use of fume and vapour detectors
- hazards associated with confined spaces
- potential sources and causes of ignition
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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 carburettors 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:

- marine repair workplace or simulated workplace
- workplace instructions
- manufacturer marine fuel system specifications
- three different vessels or engines with faults in the fuel systems
- diagnostic equipment for marine fuel systems
- tools, equipment and materials appropriate for maintenance and repair of marine fuel systems.
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Links

Companion Volume Implementation Guides are found in VETNet -

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