



Australian Government

Assessment Requirements for AURRTE010 Test marine engines in water tanks

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:

- water test two different marine engines in tanks, including one outboard engine.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to testing marine engines in water tanks, including procedures for:
 - lifting and supporting marine engines
 - working with rotating engine components
 - placing marine engines in test tanks
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from marine engines during water testing
- application, purpose and operation of water testing tanks, including:
 - methods of mounting engines to test tank
 - engine test propellers
- application, purpose and operation of marine engine test equipment, including:
 - oil pressure gauges
 - fuel pressure and flow gauges
 - tachometers
 - temperature probes
- procedures for performance testing marine engines in water tanks, including load testing
- procedures for compiling engine performance reports.

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 vessels or engines that they have tested in water tanks, 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 engine specifications
- water tank for testing marine engines
- two different marine engines requiring water testing in tanks
- marine engine test equipment as specified in the knowledge evidence
- tools, equipment and materials appropriate for water testing marine engines in tanks.

Links

Companion Volume implementation guides are found in VETNet -

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

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