



Australian Government

AURRTE001 Carry out wet run tests on vessel outboard engines

Release: 1

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Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to carry out wet run tests on vessel outboard engines. It involves preparing for the task, checking the engine, setting up testing equipment, running the engine, conducting the tests, recording test results, and completing work processes and documentation.

It applies to those working in the marine service and repair industry.

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

Competency Field

Marine

Unit Sector

Technical - Engines

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 wet run an outboard engine	1.1 Job requirements are determined from workplace instructions 1.2 Test procedures and information are accessed and interpreted and appropriate test method is selected 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools and test equipment are selected and checked and wet run

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.
	test area is prepared according to workplace procedures
2. Set up engine and equipment for wet run test	2.1 Engine is checked for ability to run through testing operating range according to manufacturer specifications and workplace procedures 2.2 Engine is prepared and wet run equipment mounted according to manufacturer specifications and workplace procedures 2.3 Required testing equipment is attached to engine according to manufacturer specifications and workplace procedures
3. Carry out wet run test	3.1 Engine is started and operated throughout test operating range according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> 3.2 Engine test results are monitored during wet run test according to manufacturer specifications and workplace procedures 3.3 <i>Wet run test results</i> are recorded according to workplace procedures
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and engine is presented ready for use 4.2 Work area is cleaned, waste and non-recyclable materials are disposed of, and recyclable material is collected 4.3 Tools and equipment are checked and stored according to workplace procedures 4.4 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 outboard engine wet run testing specifications and other required information.
Reading skills to:	interpret information from manufacturer and workshop literature when seeking engine specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting test findings, making recommendations, and recording

Skills	Description
	parts and materials used.
Oral communication skills to:	clarify workplace instructions and determine job requirements.
Planning and organising skills to:	identify risk factors to minimise risk to self and others.

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 and environmental requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - lifting and supporting outboard engines - working with outboard engines, including: - rotating components - propellers - exhaust emissions - environmental requirements, including procedures for trapping, storing and disposing of fluids released from engines during wet run testing.
<i>Wet run test results</i> must include:	- attaching flushing device - checking security of fittings - connecting remote water supply - regulating water supply for test.

Unit Mapping Information

Equivalent to AURRTE1001 Prepare outboard engines for wet-run testing

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 AURRTE001 Carry out wet run tests on vessel outboard engines

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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:

- carry out wet run testing on two outboard engines, including one outboard engine fitted to a boat.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to wet run testing vessel outboard engines, including procedures for:
 - lifting and supporting outboard engines
 - working with outboard engines, including:
 - rotating components
 - propellers
 - exhaust emissions
 - abnormal noise
- environmental requirements, including procedures for trapping, storing and disposing of fluids released from engines during wet run testing
- types and classifications of outboard engines, including two- and four-stroke engines
- wet running procedures for outboard engines, including:
 - using test tanks
 - using outboard engine flushers
 - checking throttle, choke and fast idle settings
- testing procedures for wet running outboard engines, including attaching tachometers to engines.

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 vessel outboard engines that they have wet run tested, 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 outboard engine specifications
- two different marine outboard engines, including one engine fitted to a boat
- wet run testing equipment for outboard engines
- tools, equipment and materials appropriate for carrying out wet run tests on vessel outboard engines.

Links

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