



Australian Government

AURRTA009 Recommission vessels and engine systems

Release: 1

AURRTA009 Recommission vessels and engine systems

Modification History

Release	Comment
Release 1	New unit of competency

Application

This unit describes the performance outcomes required to prepare vessels and their engine systems for use after seasonal shutdown and storage. It involves testing the vessel and engine systems, reporting faults, recommissioning the vessel and engine systems, and determining the need for water testing.

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

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 recommission vessel systems	1.1 Job requirements are determined from workplace instructions 1.2 Recommissioning procedures and information are accessed and interpreted 1.3 Hazards associated with the work are identified and risks are managed 1.4 Tools and equipment are selected and checked for serviceability

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.
2. Recommission vessel systems	2.1 Vessel systems are tested according to manufacturer specifications, workplace procedures, and <i>safety and environmental requirements</i> 2.2 Vessel systems that fail testing are reported according to workplace procedures, and rectification approval is gained from customer 2.3 Vessel systems are adjusted and re-tested as required according to manufacturer specifications, workplace procedures, and safety and environmental requirements
3. Recommission vessel engine systems	3.1 Vessel engine systems are tested according to manufacturer specifications, workplace procedures, and safety and environmental requirements 3.2 Vessel engine systems that fail testing are reported according to workplace procedures, and rectification approval is gained from customer 3.3 Vessel engine systems are adjusted and re-tested as required according to manufacturer specifications, workplace procedures, and safety and environmental requirements, and the need for water testing is determined
4. Complete work processes	4.1 Final inspection is made to ensure work is to workplace expectations and vessel 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 appropriate sources of information efficiently.
Reading skills to:	interpret information from manufacturer and workshop literature

Skills	Description
	when seeking vessel and engine system specifications and procedures.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting findings and recording work completed.
Oral communication skills to:	clarify instructions, report findings, and gain customer consent for required rectification measures.
Numeracy skills to:	use basic mathematical operations, including addition and subtraction, to calculate amounts and ratios of fluids.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Technology skills to:	use measuring equipment, such as battery load testers.

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 checking and dealing with flammable gas build-up in boats - environmental requirements, including: - procedures for trapping, storing and disposing of fluids drained from engine systems - procedures for disposing of batteries.
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Unit Mapping Information

No equivalent unit.

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 AURRTA009 Recommission vessels and engine systems

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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:

- recommission two different vessels and their engine systems, in which the work must involve:
 - preparing vessel systems for use, including:
 - electrical systems
 - steering system
 - safety systems
 - preparing engine systems for use, including:
 - fuel system
 - cooling system
 - driveline 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 recommissioning vessels and engine systems, including procedures for checking and dealing with flammable gas build-up in boats
- environmental requirements, including:
 - procedures for trapping, storing and disposing of fluids drained from engine systems
 - procedures for disposing of batteries
- recommissioning procedures for vessel and engine systems, including:
 - properties and use of servicing fluids, lubricants and anti-corrosion products used in recommissioning procedures

- preparing vessel systems for use, including:
 - electrical and on-board electronic systems
 - steering system
 - safety systems, including procedures for checking flotation devices and fire extinguishers
- preparing engine systems for use, including:
 - fuel system
 - cooling system
 - driveline system
- post-recommissioning testing procedures for vessel systems, including procedures for water testing vessels and systems.

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 that they have recommissioned, 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 vessel specifications
- two different vessels and associated engine systems requiring recommissioning
- testing equipment for vessel systems
- tools, equipment and materials appropriate for recommissioning vessels and engine systems.

Links

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