



Australian Government

**Assessment Requirements for AURRTA008
Analyse and evaluate faults in light marine
hull performance and stability 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 standard defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- analyse and evaluate a fault in the hull performance and stability system of three different light marine vessels
- the above analysis and evaluation must involve the following:
 - engine performance and maximum speed
 - propeller matching
 - hull integrity.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to analysing and evaluating faults in light marine hull performance and stability systems, including procedures for working with rotating shafts and propellers
- principles and processes involved in planning and implementing analysis and evaluation of light marine hull performance and stability systems
- design and planning of diagnostic procedures of light marine hull performance and stability systems
- types, functions, operation and limitations of light marine hull performance and stability systems, including:
 - marine two-stroke, four-stroke and diesel engines
 - marine engine installation and rigging techniques to applicable specifications
 - propeller selection techniques and procedures
 - boat trimming methods and planning aspects

- marine hull performance and design characteristics
- vessel systems and their impact on light marine hull performance and stability system operation, including weight distribution of vessel components
- testing procedures for light marine hull performance and stability systems, including:
 - engine performance and maximum speed
 - propeller matching
 - hull performance and stability water tests
 - hull integrity
- types, functions, operation and limitations of diagnostic testing equipment required to analyse and evaluate faults in light marine hull performance and stability systems
- procedures for documenting and reporting the analysis and evaluation process
- requirements of Australian Design Rules (ADRs) relating to light marine hull performance and stability 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 light marine performance and stability systems 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 hull performance and stability system specifications
- three different light marine vessels with faults in the hull performance and stability systems specified in the performance evidence
- diagnostic equipment for light marine hull performance and stability systems
- tools, equipment and materials appropriate for analysing and evaluating light marine hull performance and stability systems.

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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