



Australian Government

Assessment Requirements for MARK005 Steer a vessel under direction of the Master

Release: 1

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Modification History

Release 1. New unit of competency.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- changing from automatic pilot to hand steering and changing from hand steering to automatic pilot
- ensuring behaviour reflects relevant current legislative and regulatory requirements
- maintaining situational awareness at all times
- steering a vessel:
 - in fog and restricted visibility
 - in bad weather
 - in heavy swell and surf
 - in the vicinity of large vessels
 - in wind and sea conditions that may affect the safety of the vessel
 - through coming to and leaving a mooring
 - through towing and being towed.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- effects on the overall operation of the vessel of:
 - displacement and planning hulls
 - outboard and inboard propulsion units
 - rudders and propellers
 - trim and displacement, on the steering characteristics of a vessel
- features of a vessel that relate to its handling characteristics including:
 - effects of single or twin screw
 - effects when moving astern
 - rate of turn
 - stopping ability
 - use of controllable pitch propeller
- relevant WHS/OHS requirements, work practices and pollution control regulation and policies
- steering characteristics of vessel that affect manoeuvrability
- use of magnetic and gyrocompasses as applied to the navigation of a vessel.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Steering a vessel under the direction of the Master must occur in workplace operational situations. Where this is not available, in simulated workplace operational situations that replicate workplace conditions.

Resources for assessment include access to:

- an appropriate vessel used to demonstrate steering in normal conditions, adverse weather and emergency situations
- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment and personal protective equipment that replicate and are currently used in industry
- navigational equipment including:
 - auto pilot
 - magnetic and gyrocompasses

- manual steering arrangements
- off course alarms
- propulsion equipment including:
 - inboard engine
 - outboard engine.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>