



Australian Government

MARH013 Plan and navigate a passage for a vessel up to 12 metres

Release: 2

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Modification History

Release 2. This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application
- Minor statement changes in Performance Evidence
- Minor ECS statement change in Knowledge Evidence
- Minor statement changes in Assessment Conditions.

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

Application

This unit involves the skills and knowledge required to conduct the passage of a vessel up to 12 metres within the 15 nautical mile (nm) limit; it includes using the range of equipment found on a vessel to plan and safely conduct the passage.

This unit applies to people working in the maritime industry commanding, and operating the engines of, a commercial vessel in the capacity of Coxswain Grade 1 Near Coastal.

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Coxswain Grade 1 NC as specified in the Marine Order 505.

Seafarers seeking certification should check with AMSA.

Pre-requisite Unit

Not applicable.

Competency Field

H – Navigation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan passage

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Appropriate charts and publications are accessed and checked for currency
 - 1.2 Destination is identified, and course and waypoints are plotted
 - 1.3 Estimated time of arrival (ETA) at waypoints and final destination are calculated
 - 1.4 Safe passage is plotted to comply with all navigational buoys, marks and beacons
 - 1.5 Navigational hazards are identified to avoid dangers to vessel
 - 1.6 Weather information is accessed to determine expected weather pattern for intended passage
 - 1.7 Proposed course is modified as necessary, to meet expected weather conditions
 - 1.8 Fuel consumption for passage, including a reserve, is calculated
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- 2.1 Propulsion equipment and alarms are tested for serviceability and vessel hull is checked for seaworthiness
 - 2.2 Navigation equipment and alarms are checked to ensure they are in proper working condition and set for the passage
 - 2.3 Navigation equipment is checked for errors and allowances are made in planning the passage
 - 2.4 Fuel is checked to ensure there is adequate fuel on board for intended passage
 - 2.5 Safety equipment is checked for compliance with legislation
 - 2.6 Communications equipment is checked to ensure it is in proper working condition

2 Conduct a pre-departure check

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|---------------------------|------------|---|
| | 2.7 | Anchoring and mooring equipment is checked to ensure it is adequate and in good condition |
| | 2.8 | Vessel and equipment are secured for sea |
| 3 Conduct passage | 3.1 | Local authorities are advised of departure and passage plan |
| | 3.2 | Vessel is steered and propulsion equipment is operated in a safe and controlled manner to complete pre-planned course |
| | 3.3 | Pilotage techniques and navigational equipment are used to monitor vessel position and maintain vessel in safe waters at all times |
| | 3.4 | Errors detected with navigational equipment are corrected to maintain planned passage |
| | 3.5 | Navigational buoys, marks and beacons are identified and complied with |
| | 3.6 | Situational awareness is maintained to avoid navigational hazards and to comply with regulations for prevention of collision at sea |
| | 3.7 | Weather and sea conditions are monitored during passage and correct adjustments are made for changing conditions |
| 4 Complete passage | 4.1 | Local authority is advised of completion of passage |
| | 4.2 | Vessel is checked to ensure it is securely moored |
| | 4.3 | Propulsion equipment is checked to ensure it is safely shut down and secured |
| | 4.4 | Navigational equipment is switched off |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work

environment.

Unit Mapping Information

This unit replaces and is equivalent to MARH001 Plan and navigate a passage for a vessel up to 12 metres.

Links

Companion Volume Implementation Guides are found in VETNet -

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