



Australian Government

MARH037 Plan and navigate a passage for a vessel up to 100 metres

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package.

Application

This unit involves the skills and knowledge required to plan and safely conduct a passage on a vessel up to 100 metres, including obtaining and interpreting weather information and position fixing.

This unit applies to people working in the maritime industry in the capacity of:

- Master up to 45 metres Near Coastal
- Master up to 24 metres 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 Master up to 24m NC, Mate up to 100m NC and Master up to 45m NC as specified in 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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan passage

- 1.1** Navigational charts, nautical publications and related documentation are accessed and checked for currency
- 1.2** Documentation is used to identify navigational hazards relevant to proposed voyage
- 1.3** Route for voyage is determined and critical points along proposed route of voyage are identified and plotted
- 1.4** Potential navigational contingencies and problems along planned route are identified and appropriate strategies for dealing with them are developed and recorded
- 1.5** Weather forecasts are obtained and interpreted, and weather and sea condition hazards relevant to proposed voyage are identified prior to departure
- 1.6** Route is modified as required to take into account weather and sea condition hazards
- 1.7** Planned route for voyage and strategies for dealing with critical situations and contingencies along route are recorded

2 Conduct a pre-departure check

- 2.1** Propulsion steering equipment and alarms are tested for serviceability and vessel hull is checked for seaworthiness
- 2.2** Wheelhouse equipment and alarms are checked to ensure they are in proper working condition and set for passage
- 2.3** Wheelhouse equipment is checked for errors and allowances are made in planning passage
- 2.4** Fuel is checked to ensure that there is adequate fuel, including a reserve, on board for the intended passage
- 2.5** Safety equipment is checked for compliance with relevant legislation
- 2.6** Communication equipment is checked to ensure it is in proper working condition
- 2.7** Anchoring and mooring equipment is checked to ensure

it is in proper working condition

2.8 Vessel and equipment are secured for sea

2.9 Latest weather information is obtained and interpreted, and proposed route is modified as required to take into account weather and sea condition hazards

3 Conduct passage

3.1 Local authorities are advised of departure and passage plan

3.2 Mode of steering is selected appropriate for prevailing weather, sea and traffic conditions, and intended manoeuvres

3.3 Weather forecasts and observations of sea and weather conditions are used to determine vessel speed and direction

3.4 Information from wheelhouse equipment is interpreted to identify navigational hazards and fix vessel position

3.5 Alterations to vessel course or speed are made to meet prevailing circumstances and changing conditions

3.6 Navigational manoeuvres are conducted within safe operational limits of vessel

3.7 Details of passage are recorded in vessel log according to regulations

4 Fix vessel position

4.1 Primary position fixing method is selected according to navigational principles and prevailing conditions

4.2 Position is fixed using selected method and information derived from relevant wheelhouse equipment

4.3 Position is recorded according to regulations

4.4 Fixes are taken at time intervals appropriate for prevailing navigational conditions

4.5 Performance checks of position fixing instruments and wheelhouse equipment are carried out according to organisational procedures and manufacturer instructions

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 MARH016 Plan and navigate a passage for a vessel up to 80 metres.

Links

Companion Volume Implementation Guides are found in VETNet -

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