



Australian Government

MARH020 Forecast weather and oceanographic conditions to plan a safe passage

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 forecast weather and oceanographic conditions to plan a safe passage.

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

- Master of a commercial vessel Unlimited.

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 Unlimited and to meet regulatory requirements this unit must be delivered consistent with Marine Orders and with the relevant sections of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).
- Those regulatory requirements include STCW International Maritime Organization (IMO) model course competencies and areas of knowledge, understanding and proficiency, together with the estimated total hours required for lectures and practical exercises. Teaching staff should note that timings are suggestions only and should be adapted to suit individual groups of trainees depending on their experience, ability, equipment and staff available for training.

Pre-requisite Unit

Not applicable.

Competency Field

H – Navigation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Forecast area weather

- 1.1 Synoptic chart is interpreted and recorded
- 1.2 Information received by weather fax is interpreted and recorded
- 1.3 Weather reports are obtained, interpreted and recorded
- 1.4 Observations of weather and cloud formations are made, interpreted and recorded
- 1.5 Statistical data and observations are used to predict likely weather conditions for a determined period

2 Use information to predict oceanographic conditions

- 2.1 Information on ocean current systems is interpreted and recorded
- 2.2 Nautical publications on tides and currents are used to calculate tidal conditions
- 2.3 Wave height and swell forecast is made using available information
- 2.4 Potentially dangerous oceanographic conditions are identified and appropriate actions are taken to maintain safety of navigation and to minimise risk to safety of vessel

3 Maintain records of weather and oceanographic information and forecasts

- 3.1 Statistical data and observations are recorded and filed according to organisational procedures
- 3.2 Actions taken to maintain safety of navigation and to minimise risk to safety of vessel as a result of weather and oceanographic forecasts, are documented according to organisational procedures
- 3.3 Meteorological and nautical publications are updated and stored according to organisational procedures

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 MARH011 Forecast weather and oceanographic conditions to plan a safe passage.

Links

Companion Volume implementation guide can be found in VetNet -

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