



Australian Government

MARH019 Forecast weather and oceanographic conditions

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 Assessment Conditions.

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 during a near coastal voyage and to take appropriate actions based on predictions.

It includes interpreting weather and oceanographic information, using information to predict local weather and oceanographic conditions, and maintaining records of weather and oceanographic information.

This unit applies to people working in the maritime industry in the capacity of Master up to 45 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 45 metres Near Coastal and a Mate up to 100 metres Near Coastal, 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

Elements describe the essential outcomes.

1 Interpret weather and oceanographic information

2 Use information to predict local weather and oceanographic conditions

3 Maintain records of weather and oceanographic information and forecasts

PERFORMANCE CRITERIA

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

1.1 Ocean and weather conditions are observed and interpreted

1.2 Measurements of current local, meteorological and oceanographic parameters are made and recorded using appropriate shipboard instruments

1.3 Weather charts and satellite images are acquired and interpreted

1.4 Weather reports are obtained and interpreted

2.1 Forecasts of local weather and oceanographic conditions are correctly made using available information

2.2 Wave height and swell forecast is made using available information

2.3 Effects of local topographical features on wind flow and weather conditions are estimated using available information

2.4 Potentially dangerous conditions are identified and appropriate actions taken to secure vessel

3.1 Weather and oceanographic information and forecasts are recorded and filed according to organisational procedures

3.2 Action on vessel operations initiated as a result of weather and oceanographic forecasts is documented according to organisational procedures

3.3 Meteorological charts, publications and related documentation 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 MARH006 Forecast weather and oceanographic conditions.

Links

Companion Volume Implementation Guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>