



Australian Government

Assessment Requirements for MARH011 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 Release 3.0.

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
- calculating tidal conditions
- ensuring currency of relevant reference material
- observing, interpreting and forecasting weather and oceanographic conditions
- reading, interpreting and applying weather and oceanographic information
- selecting and using shipboard instruments to assist in forecasting weather and oceanographic conditions
- supporting reasons for intended action with statistical data and observations of actual conditions
- using appropriate nautical publications on tides and currents
- using tide tables to calculate height of tide.

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:

- air masses and fronts
- basic principles for making meteorological and oceanographic measurements
- characteristics of various weather systems including tropical revolving storms, and avoidance of storm centres and dangerous quadrants
- cloud classifications
- cyclones, storms and gales
- effects on navigation and vessel handling of wind, currents and bottom topography
- heat exchange process
- ocean currents

- pressure systems and cold fronts
- principles and procedures of weather forecasting using information obtained from observations, charts, satellite images, reports and instruments
- procedures for filing and maintaining weather and oceanographic information
- procedures to be followed during gale conditions and tropical revolving storms
- sea state
- sources of weather and oceanographic information, and methods for their interpretation
- synoptic chart analysis
- tide prediction
- tropical revolving storms
- typical problems in forecasting weather and oceanographic conditions
- use of tide tables
- vertical division of the atmosphere
- weather data provided by shipboard instruments
- WHS/OHS requirements and work practices.

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.

Assessment must occur in workplace operational situations or where this is not available, in simulated workplace operational situations or an industry-approved marine operations site that replicate workplace conditions.

Resources for assessment include access to:

- relevant documentation including synoptic chart, weather reports, workplace procedures, regulations, codes of practice, operation manuals, meteorological and nautical publications
- shipboard instruments, equipment, materials and personal protective equipment currently used in industry.

Performance should be demonstrated consistently over time and in a suitable range of contexts.

Links

Companion Volume implementation guides are found in VETNet -

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