



Australian Government

**Assessment Requirements for MARH014
Apply weather information when
navigating inland waters as Master**

Release: 1

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Modification History

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.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- carrying out and interpreting weather observations
- completing required records and documentation
- reading, interpreting and applying weather information
- recognising problems that may occur when interpreting and applying weather information to navigation and taking appropriate action
- selecting and using relevant instruments and equipment to measure meteorological conditions, including:
 - anemometers
 - barometers
 - thermometers
- using weather forecasts to ensure safe navigation.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- air masses and cold and warm fronts
- basic principles of, and procedures for, interpreting meteorological information
- cloud classifications
- cyclones, storms and gales
- effects on navigation and vessel handling of wind, currents and bottom topography
- heat exchange process
- meteorological parameters:
 - air temperature
 - atmospheric pressure
 - cloud
 - pressure gradient and isobar patterns

- relative humidity
- visibility (in conditions of fog, mist, rain and snow)
- wind direction
- wind strength
- pressure systems
- principles of weather forecasting using information obtained from observations, reports and instruments
- procedures for applying forecast of likely weather and water conditions to the planning of a typical voyage
- procedures to be followed during gale conditions and cyclones, including the means of securing a vessel in a cyclone mooring
- sources and interpretation of weather data
- tropical meteorology
- vertical division of the atmosphere.

Assessment Conditions

Assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment. As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment. 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.

Practical assessment must occur in a workplace, or realistic simulated workplace, under the normal range of workplace conditions. Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, safety management system (SMS), workplace procedures and operational manuals, including:
 - notices and instructions of relevant maritime authorities
 - vessel log
 - weather reports, charts and satellite images
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) currently used in industry, including instruments and equipment for measuring and observing the weather.

Links

Companion Volume implementation guides are found in VETNet -

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