



**Australian Government**

**Assessment Requirements for MARH002  
Apply weather information when  
navigating inland waters as Master**

**Release: 1**

# **Assessment Requirements for MARH002 Apply weather information when navigating inland waters as Master**

## **Modification History**

Release 1. New unit of competency.

## **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:

- completing required records and documentation
- identifying and evaluating weather forecasting problems and determining appropriate solutions
- navigating under a range of conditions (day and night, clear visibility and restricted visibility)
- 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 according to instructions
- using relevant communication skills when navigating a small vessel as Master
- 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:

- basic principles and procedures interpreting meteorological information
- effects on navigation and vessel handling of wind, currents and bottom topography
- maritime communication techniques
- meteorological and oceanographic parameters:
  - atmospheric pressure
  - pressure gradient and isobar patterns
  - air temperature
  - relative humidity
  - wind strength
  - wind direction
  - visibility (in conditions of fog, mist, rain and snow)
  - cloud
- problems in forecasting weather information to navigate a vessel and appropriate action and solutions
- procedures for applying forecast of likely weather and water conditions to the development of a typical voyage
- procedures to be followed during gale conditions and cyclones, including the means of securing a vessel in a cyclone mooring
- principles of weather forecasting using information obtained from observations, reports and instruments, including:
  - vertical division of the atmosphere
  - air masses and fronts
  - cloud classifications
  - heat exchange process
  - synoptic chart analysis
  - pressure systems, cold and warm fronts
  - cyclones, storms and gales
  - tropical meteorology
  - sources of weather data
- relevant sections of state and territory regulations, National Standard for Commercial Vessels (NSCV) and Uniform Shipping Laws (USL) Code dealing with responsibilities of a Master Inland Waters
- sources of weather reports and methods for their interpretation.

## **Assessment Conditions**

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

## **Links**

MAR Maritime Training Package Companion Volume Implementation Guide at: -  
[http://companion\\_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22](http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22)