



Australian Government

Assessment Requirements for MARN017 Assist with marine towage operations

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.

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:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- applying risk assessment and hazard control strategies as directed
- communicating with other workplace personnel using:
 - hand signals
 - handheld radio
 - standard maritime vocabulary
- operating towage equipment, gear and machinery including winches, handling lines and tow lines in accordance with workplace procedures, instructions and safe work practices
- participating in risk assessment in accordance with workplace procedures, instructions and safe work practices
- reading and interpreting written information relevant to work tasks in accordance with marine towage plan
- reporting and/or rectifying hazards or safety incidents in accordance with workplace procedures
- using personal protective equipment (PPE) in accordance with workplace procedures
- working safely and collaboratively with others
- working safely near danger zones and snap back zones in accordance with workplace procedures and as directed.

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:

- communication techniques and hand signals used during towing operation
- documentation and records, including:
 - checklists
 - workplace procedures
- hazards and dangers, including:

- adverse weather and sea conditions
- bight of a line
- connecting (making fast) and letting go (casting off) lines
- dangers of handling of towage equipment and gear
- dangers zones, deck space and snap back zones
- faulty, damaged or malfunctioning equipment and gear
- girding/girting
- line tension, variation in line tension and abnormalities
- towlines, selecting and adjusting towlines including:
 - lengthening towing line
 - movement of tow line
 - positioning of tow line
 - shortening towage line
 - tow line failure
 - working line failure
- use of coupling equipment to couple and uncouple tow
- operation of handheld radio
- PPE used during towing operations and emergency situations, including:
 - immersion suits
 - lifebuoy
 - lifejackets
 - personal locating beacons (PLB)
 - portable lights
 - radiocommunication equipment
 - wet weather protection
- working load limit (WLL)/safe working loads (SWL) of lines and equipment
- towage equipment and gear, including:
 - bitts:
 - bitts for low stress tasks
 - bitts for towage
 - bridles
 - capstan
 - chafing gear
 - emergency release system
 - emergency towage rigging
 - emergency towage equipment
 - hooks
 - hydraulic systems such as shark jaws
 - rings
 - ropes

- shackles
- surge pendant
- thimbles
- towing hooks and arrangements
- towage fittings
- towage lines including:
 - gob lines
 - working lines
- towage attachment
- towing pendant
- towing pins
- towing winch brakes
- winches
- wires
- towing operations, including:
 - characteristics of towing operations including:
 - emergency
 - in-harbour
 - off shore
 - characteristics and features of item to be manoeuvred
 - characteristics of towing configurations including:
 - active escort and passive escort
 - bow towing
 - hiping up
 - pushing
 - stern tow
 - purpose of a towing plan
- vessel strong points used for emergency towing
- Safety Management System (SMS), workplace procedures and standard operating procedures for marine towage operations, including reporting of non-conformances with the SMS system.

Assessment Conditions

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within 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.

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 replicate workplace conditions.

Resources for assessment must include access to:

- a vessel capable of conducting marine towage operations
- applicable documentation, such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and relevant PPE currently used in industry.

Links

Companion Volume Implementation Guides are found in VETNet -

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