



Australian Government

MARN016 Apply general purpose hand skills aboard a commercial vessel

Release: 2

MARN016 Apply general purpose hand skills aboard a commercial vessel

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 perform general purpose hand duties on a commercial vessel.

It includes using and maintaining ropes, operating deck machinery and emergency stops, assisting in securing vessel at anchor, assisting in securing and adjusting vessel position during mooring operations, assisting in securing vessel for sea, performing tasks aloft and over vessel side and assisting with safe refuelling operations.

This unit applies to people working in the maritime industry under the general supervision of the Master or Engineer of a commercial vessel in the capacity of a General Purpose Hand.

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 General Purpose Hand Near Coastal as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA.

Pre-requisite Unit

Not applicable.

Competency Field

N – Seamanship

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

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| 1 Use and maintain ropes | 1.1 Rope types and common areas of use are correctly identified |
| | 1.2 Ropes are checked for wear and any damage is reported according to workplace procedures |
| | 1.3 Ropes are coiled and stowed correctly |
| | 1.4 Knots and hitches are tied neatly and securely, and are used according to their correct application |
| | 1.5 Ropes are spliced neatly and securely according to their correct application and rope ends are whipped where instructed, to maintain good condition |
| 2 Operate deck machinery and emergency stops | 2.1 Deck machinery is inspected, tested and prepared for operations according to workplace procedures and supervisor instructions |
| | 2.2 Operations are carried out safely according to supervisor instructions, workplace procedures and vessel Safety Management System (SMS) |
| | 2.3 Emergency stops on motor and machinery are operated in response to an emergency situation according to workplace procedures and supervisor instructions |
| 3 Assist in securing vessel at anchor | 3.1 Anchor and equipment are checked and prepared prior to letting go according to workplace procedures and supervisor instructions |
| | 3.2 Instructions provided are complied with in relation to quantity of anchor cable run out or recovered |
| | 3.3 Control of anchor cable during operations is maintained within safe operating limits at all times |
| | 3.4 Anchor and equipment are secured on completion of anchoring operations according to workplace procedures and supervisor instructions |
| | 3.5 Anchoring area is kept free of loose ropes, wires and debris at all times |

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| 4 Assist in securing and adjusting vessel position during mooring operations | 4.1 | Mooring lines and associated equipment are handled safely according to workplace procedures and supervisor instructions |
| | 4.2 | Assistance is provided in implementing mooring plans in accordance with workplace procedures and supervisor instructions |
| | 4.3 | Mooring area is kept free of loose ropes, wires and debris during mooring operations according to workplace procedures and supervisor instructions |
| | 4.4 | Tension on ropes is maintained at an appropriate level for the stage and nature of the operation according to supervisor instructions |
| | 4.5 | Mooring lines are secured according to supervisor instructions and workplace procedures |
| | 4.6 | Equipment malfunction or problems encountered during operations are promptly reported |
| 5 Assist in securing vessel for sea | 5.1 | Cargo and cargo handling equipment are checked to ensure they are stowed securely according to workplace procedures and supervisor instructions |
| | 5.2 | Hatches and openings are checked to ensure they are secured |
| | 5.3 | Maintenance equipment is stowed securely according to workplace procedures, supervisor and manufacturer instructions |
| | 5.4 | Assist in checking vessel equipment according to workplace procedures and supervisor instructions |
| | 5.5 | All mooring lines are stowed securely according to workplace procedures and supervisor instructions |
| | 5.6 | Assist in stowing the gangway according to workplace procedures and supervisor instructions |
| 6 Assist with task aloft and over vessel side | 6.1 | Assist in identifying hazards, assessing risks and implementing control measures according to supervisor instructions and workplace procedures |
| | 6.2 | Assist in preparing area and equipment according to supervisor instructions and workplace procedures |

- 6.3 Required precautions and communications are undertaken when working aloft or over the side
 - 6.4 Tasks are completed safely according to workplace procedures, supervisor instructions and SMS
 - 6.5 Equipment is checked and stored according to workplace procedures
- 7 **Assist with safe refuelling operations**
 - 7.1 All personal protective equipment (PPE) is accessed and used according to workplace procedures
 - 7.2 Safety boundary for the refuelling process is established according to workplace procedures and supervisor instructions
 - 7.3 Supervisor instructions are followed to ensure spill prevention systems are correctly deployed
 - 7.4 Supervisor instructions are followed in completing tasks related to the refuelling or fuel transfer process

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. Non-essential conditions may be found in the MAR training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to MARN010 Apply general purpose hand skills aboard a vessel.

Links

Companion Volume Implementation Guides are found in VETNet -

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

Assessment Requirements for MARN016 Apply general purpose hand skills aboard a commercial vessel

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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:

- assisting in:
 - different types of mooring operations
 - preparation and anchoring the vessel
 - the performance of common operations, including:
 - berthing and unberthing
 - rigging and recovering means of access to the vessel
- complying with workplace requirements, including:
 - manufacturer and supervisor instructions
 - Safety Management System (SMS)
 - work health and safety (WHS)/occupational health and safety (OHS) requirements and safe work practices
 - workplace procedures
- handling and using ropes/lines and wires, including:
 - performing an eye splice, back splice and a short splice
 - performing common whipping on ropes
 - synthetic rope mooring lines
 - tying common knots, bends and hitches, including:
 - bowline
 - clove hitch
 - reef knot
 - rolling hitch
 - round turn and two half hitches
- using different types of deck machinery.

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:

- anchor cable markings
- anchoring the vessel in varying weather conditions
- characteristics, care and maintenance of different types of ropes, wires and lines
- correct application of common knots, bends and hitches, including:
 - bowline
 - clove hitch
 - eye splice
 - reef knot
 - rolling hitch
 - round turn and two half hitches
 - short splice
- correct nautical terminology
- different configurations of mooring lines for various parts of a vessel, including:
 - spring lines:
 - back springs
 - forward and aft springs
 - bow and stern lines
 - breast lines
- different types of anchors
- hazards and procedures associated with:
 - confined spaces
 - refuelling
 - machinery spaces
 - vessel access
- hazards that could occur if the operation is not properly controlled
- implementing safe and environmentally responsible work practices
- requirements and means of access to the vessel, including:
 - rigging and stowing gangways
 - accommodation ladders
 - pilot ladders
- securing equipment and objects for sea passage, transit in port or ready for use
- workplace requirements, including:
 - SMS
 - WHS/OHS requirements and safe work practices:
 - Code of Practice for Health and Safety in Shipboard Work
 - state/territory WHS/OHS legislation

- workplace procedures, including:
 - lashing cargo
 - loading or discharging
 - making adjustments from both fore and aft mooring positions
 - making fast and letting go fore and aft to a wharf
 - making fast and letting go to a single-point mooring
 - working aloft or over the side.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

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.

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:

- a commercial vessel
- applicable documentation such as legislation, regulations, codes of practice, SMS, workplace procedures and operational manuals
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) currently used in industry.

Links

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