



Australian Government

MARN007 Use seamanship skills on board a vessel

Release: 1

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Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to apply practical seamanship skills as part of operations on a vessel.

This unit applies to an Integrated Rating or Able Seafarer-Engine/Deck who assists the responsible officer in a range of seamanship activities on a range of vessels.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

N – Seamanship

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Use and maintain ropes and wires

PERFORMANCE CRITERIA

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

- 1.1 Knots, splices, stoppers, whippings and servings are created and used in the course of operations on board a vessel
- 1.2 Ropes are spliced neatly and securely according to their correct application and rope ends are whipped as required to maintain good condition
- 1.3 Breaking strain and safe working loads of rope and wire is determined and applied as load limits in the course of

		operations on board a vessel
	1.4	Wear and damage to rope and wire are identified and recorded
	1.5	Rope and wire are maintained and stored according to organisational procedures
2 Secure vessel at anchor	2.1	Anchor and equipment are prepared for use according to organisational procedures
	2.2	Control of cable is maintained within safe operating limits during anchoring operations
	2.3	Anchor and equipment are secured on completion of anchoring operations as instructed for anticipated forecast conditions
	2.4	Anchoring area is kept free of loose ropes, wires and debris during all operations
3 Secure vessel at a berth	3.1	Mooring lines and associated equipment are handled safely at all times
	3.2	Mooring area is kept free of loose ropes, wires and debris throughout operations
	3.3	Rope stoppers are correctly applied to transfer mooring lines when securing vessel or tug
	3.4	Securing a tug using tug or ships lines is carried out safely and tug lines are monitored at all times
	3.5	Tension on ropes is maintained at an appropriate level for stage and nature of the operation
	3.6	Tension on shore-power leads and other umbilicals is monitored
4 Lash and secure stores, cargo and access ways	4.1	Lashing equipment is inspected, maintained and correctly stored after use according to organisational procedures
	4.2	Cargo is stowed according to recognised principles and organisational procedures relating to transporting and handling dangerous goods
	4.3	Cargo is lashed and secured according to recognised principles and organisational procedures
	4.4	Equipment and items on deck and in galley spaces are

- secured according to organisational procedures
- 4.5 Personnel access ways are rigged and secured according to organisational procedures
- 4.6 Accommodation spaces and personnel facilities on board vessel are checked and correctly secured for sea according to organisational procedures
- 5 Conduct fuelling and oil transfer operations**
- 5.1 Appropriate personal protective equipment is accessed and used
- 5.2 Safety boundary for fuelling and transferring operations is established
- 5.3 Spill prevention systems are correctly deployed
- 5.4 Tank levels are correctly measured and reported pre- and post-fuelling and transferring operations
- 5.5 Fuelling and transferring operations are performed safely, and associated valves and pipelines are secured on completion to avoid spillages
- 5.6 Appropriate action is taken to handle incidents arising during fuelling and transferring operations according to organisational procedures and regulatory requirements
- 5.7 Effective communication is maintained with crew during fuelling and transferring operations to ensure the safety and integrity of the vessel and crew

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 can be found in the Companion Volume Implementation Guide.

Anchor and equipment include one or more of the

- anchors and cables
- anchor buoy

following:

- anchor securing arrangements
- anchor windlass
- sea anchor

Lashing equipment
includes one or more of
the following:

- chains
- ropes
- tensioning device
- webbing
- wires

Incidents include one or
more of the following:

- failure of communications systems
- leakage from faulty valves and hoses
- tank overflow

Unit Mapping Information

This unit replaces and is equivalent to MARN3002A Use seamanship skills on board a vessel.

Links

Companion Volume implementation guides are found in VETNet -

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