



Australian Government

Department of Education, Employment and Workplace Relations

TDMMF6007A FOLLOW OH&S AND EMERGENCY PROCEDURES DURING SHOREBASED MOORING OPERATIONS

Release: 1

TDMMF6007A FOLLOW OHS AND EMERGENCY PROCEDURES DURING SHORE-BASED MOORING OPERATIONS

Modification History

Not applicable.

Unit Descriptor

UNIT DESCRIPTOR:

This unit involves the skills and knowledge required to interpret and follow OH&S policy and procedures during mooring and untying operations.

Application of the Unit

Application of the unit	The unit has application in qualifications for a shore-based linesperson, i.e. Certificate I in Transport&Distribution (Maritime Operations - Shore-based Linesperson).
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Licensing/Regulatory Information

Licensing/legislative requirements	The unit is consistent with the relevant sections of the national and international requirements and regulations relevant to the mooring and untying of ocean-going vessels.
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Pre-Requisites

Not applicable.

Employability Skills Information

Not applicable.

Elements and Performance Criteria Pre-Content

<i>Elements describe the essential outcomes of a unit of competency.</i>	<i>Performance Criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the Evidence Guide.</i>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<p>1 Follow safety and hazard control procedures during mooring and untying operations</p>	<p>a Tests and inspections of ropes and equipment used in mooring and untying operations are conducted as per regulations and company procedures</p> <p>b Hazards are identified and action is taken to minimise or eliminate risk to personnel, port facilities, vessel and the environment</p> <p>c Safety and hazard minimisation procedures and regulations are followed at all times during cargo handling operations</p> <p>d Action is taken in the event of a cargo handling incident or emergency to secure the cargo and the vessel and maintain the safety of the vessel and persons involved</p>
<p>2 Use personal protective equipment during mooring and untying operations</p>	<p>a Required personal protective equipment required during mooring and untying operations is obtained and checked prior to the commencement of operations in accordance with company OH&S policy and procedures</p> <p>b Personal protective equipment is correctly used as required during mooring and untying operations</p> <p>c Personal protective equipment is correctly stored after use in accordance with company procedures</p>

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ELEMENT	PERFORMANCE CRITERIA
3 Follow emergency procedures	<ul style="list-style-type: none">a Emergency procedures for the wharf and port facility are known and are implemented in real and simulated emergency situationsb Escape routes and internal and external communications and alarm systems are correctly used in real and simulated emergency situations in accordance with regulatory requirements and established port proceduresc Emergency communications and alarm signals and systems are understood and required action implemented in accordance with port emergency procedures and regulatory requirements
5 Report on safety incidents and emergencies during mooring and untying operations	<ul style="list-style-type: none">a Information on any safety incident or emergency that occurs during mooring or untying operations is correctly and accurately recorded in accordance with regulations and company proceduresb Required reports on any safety incident or emergency that occurs during mooring or untying operations are prepared and referred to designated personnel in accordance with regulations and company procedures

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Required Skills and Knowledge

REQUIRED KNOWLEDGE

This describes the knowledge required for this unit.

- 1 Maritime regulations applicable to the mooring and untying of ocean-going vessels
- 2 Relevant OH&S legislation, codes of practice, policies and procedures
- 3 Safety management procedures as they relate to mooring and untying of ocean-going vessels
- 4 Methods for safely carrying out the mooring and untying of ocean-going vessels
- 5 Hazards and safety-related problems that may occur during mooring and untying operations and appropriate preventative and remedial action and solutions
- 6 Procedures for calculating the stresses on lifting gear used in cargo handling operations
- 7 Reporting requirements in the event of safety incidents or emergencies that may occur during mooring or untying operations
- 8 Safety instructions for the use of ropes and other equipment during mooring and untying operations

REQUIRED SKILLS

This describes the basic skills required for this unit.

- 1 Communicate effectively with other personnel when mooring and untying a vessel
- 2 Interpret and follow OH&S and safety management procedures for mooring and untying operations, including safety instructions and precautions
- 3 Work safely as a member of a mooring and untying team

REQUIRED KNOWLEDGE

- 4 Recognise safety-related problems that may occur during mooring operations and take appropriate action to report and resolve them
- 5 Recognise dangers and hazards before and during mooring operations and take appropriate action to report and rectify them
- 6 Identify and use personal protective equipment
- 7 Identify and correctly use various types of ropes and steel wires and mooring equipment
- 8 Record and report on safety incidents and emergencies

Evidence Guide

Evidence Guide

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The Evidence Guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

1 Critical aspects of evidence required to demonstrate competency in this unit	Assessment must confirm appropriate knowledge and skills to: <ol style="list-style-type: none">a Follow safety and hazard control procedures during mooring and untying operationsb Use personal protective equipment during mooring and untying operationsc Follow emergency procedures during mooring and untying operationsd Report on safety incidents and emergencies that may occur during mooring and untying operations
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2 Evidence required for demonstration of consistent performance:

- a Performance is demonstrated consistently over a period of time and in a suitable range of contexts
- b Applies underpinning knowledge and skills when:
 - 1 Following safety and hazard control procedures during mooring and untying operations
 - 2 Using personal protective equipment during mooring and untying operations
 - 3 Following emergency procedures during mooring and untying operations
 - 4 Reporting on safety incidents and emergencies that may occur during mooring and untying operations
- c Shows evidence of application of relevant workplace procedures, including
 - 1 relevant maritime regulations pertaining to safe mooring and untying operations
 - 2 port and vessel safety and security procedures
 - 3 relevant OH&S regulations and hazard prevention policies and procedures
 - 4 job procedures and work instructions
 - 5 relevant manufacturer's guidelines relating to the use of machinery, including instructions on equipment capability and limitations
- d Action is taken promptly to report and/or rectify any hazards, safety incidents or emergencies that may occur during mooring and untying operations in accordance with regulatory requirements and company procedures
- e Work is completed systematically with required attention to detail and safety requirements

Evidence Guide (continued)

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2 Evidence required for demonstration of consistent performance: (continued)	f Recognises and adapts appropriately to cultural differences in the workplace, including modes of behaviour and interactions between crew and others
3 Context of assessment	<p>a Assessment of competency must comply with the assessment requirements of the relevant maritime regulations</p> <p>b Assessment of this unit must be undertaken within relevant marine authority approved and audited arrangements by a registered training organisation:</p> <ol style="list-style-type: none"> 1 As a minimum, assessment of knowledge must be conducted through appropriate written/oral examinations 2 Appropriate practical assessment must occur: <ol style="list-style-type: none"> i at the registered training organisation; and/or ii on an shore-side terminal or wharf
4 Specific resources required for assessment	<p>Access is required to opportunities to:</p> <p>a participate in a range of exercises, case studies and other simulated practical and knowledge assessments that demonstrate the skills and knowledge to follow OH&S and emergency procedures in a range of simulated mooring and untying operational situations; and/or</p> <p>b demonstrate the application of OH&S procedures in actual shore-based mooring and untying operations for an ocean-going vessel at an Australian terminal or wharf.</p>

Range Statement

Range Statement

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The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

VARIABLE

SCOPE

1. GENERAL CONTEXT

a. Work must be carried out:	1	in compliance with relevant maritime regulations and OH&S legislation as they apply to mooring and untying operations on ocean-going vessels.
b. Work is performed:	1	under supervision as part of a mooring or untying team, with accountability and responsibility for self and others in safely achieving the prescribed outcomes.
c. Work involves:	1	the safe conduct of a range of mooring and untying techniques across a variety of vessel types and port facilities.

2. WORKSITE ENVIRONMENT

a Mooring and untying operations may be carried out:	1	for any ocean-going Australian or international commercial vessel

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

b Mooring and untying operations may be carried out:	1 by day or night in both normal and emergency situations
	2 under any permissible conditions of weather
	3 at various shoreside terminals and wharves
c Mooring and untying operations may include:	1 preparing a berth
	2 receiving heaving line from a launch
	3 receiving a heaving line from a vessel
	4 returning a heaving line to a vessel
	5 landing a gangway
	6 untying and letting go a vessel

Range Statement (continued)

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VARIABLE	SCOPE
d Persons and vessels involved in mooring and untying operations may include:	1 vessel and crew
	2 pilot vessel and pilot
	3 tug(s) and tug crew(s)
	4 mooring launch and crew
	5 mooring supervisor
	6 mooring personnel (bow)
	7 mooring personnel (stern)

VARIABLE	SCOPE
e Communications required during mooring operations may include:	<ol style="list-style-type: none"> 1 oral communications with mooring supervisor or master and other members of the mooring or untying team 2 VHF radio between tug crew and pilot on vessel 3 VHF radio between tug crew and mooring launch crew 4 VHF radio between mooring launch crew and pilot on vessel 5 radio between mooring supervisor (shoreside) and pilot on vessel 6 radio between mooring supervisor (shoreside) and mooring personnel (bow) 7 radio between mooring supervisor (shoreside) and mooring personnel (stern)
f Dangers associated with mooring duties include:	<ol style="list-style-type: none"> 1 being hit by a line being thrown down from a vessel 2 stepping inside the bight of a line 3 being struck by a parting line 4 mixing rings and wire rope 5 falling off the edge of the wharf into the water 6 back strain from carrying a line 7 back strain from heaving on a line 8 back strain from heaving on a line with one hand 9 'snap back' in the event of a synthetic line breaking
g Rope handling skills include:	<ol style="list-style-type: none"> 1 2 3

Range Statement (continued)

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VARIABLE	SCOPE
g Rope handling skills include: (continued)	4 correctly heaving on a line in collaboration with other members of a mooring team 5 applying a stopper to a synthetic fibre rope 6 applying a chain stopper to a natural cordage rope 7 correctly attaching a line to a bollard or bitt 8 flaking down a rope 9 forming a bight
h Safety precautions include:	1 checking own personal fitness and medical well-being 2 removal of any rings from fingers to avoid them being caught on steel wire ropes 3 confirming availability of a personal flotation device upon arrival at a mooring operation 4 wearing of suitable clothing 5 obtaining and using required personal protective equipment 6 keeping work area hazard-free 7 checking whereabouts of edge of wharf 8 checking whereabouts of other members of the mooring/untying team
i Personal protective equipment may	1 safety footwear 2 safety helmet

VARIABLE	SCOPE
	3 suitable gloves (optional) 4 safety vest 5 reflective braces 6 personal collar insert for flotation device
j Documentation and records may include:	1 mooring and untying plans, procedures, checklists and instructions 2 relevant sections of maritime regulations concerning mooring and untying operations 3 rope and equipment manufacturer's instructions and procedures 4 safety instructions and procedures

Range Statement (continued)

<p>TDMMF6007A FOLLOW OH&S AND EMERGENCY PROCEDURES DURING SHORE-BASED MOORING OPERATIONS</p>

VARIABLE	SCOPE
j Documentation and records may include: (continued)	5 instructions of relevant maritime authorities 6 reports and records of any safety incident or emergency
g Applicable legislation, regulations and codes may include:	1 relevant sections of maritime regulations concerning mooring and untying operations 2 OH&S legislation 3 relevant port and vessel safety and security requirements and regulations

Unit Sector(s)

Not applicable.

Field

Field MF Operational Quality and Safety

Relationship to other units

Relationship to other units	The unit may be assessed in conjunction with other units that relate to the functions of the occupation(s) concerned.
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