



Australian Government

Department of Education, Employment and Workplace Relations

TDMMU407B ENSURE COMPLIANCE WITH POLLUTION PREVENTION MEASURES

Revision Number: 1

TDMMU407B ENSURE COMPLIANCE WITH POLLUTION PREVENTION MEASURES

Modification History

Not applicable.

Unit Descriptor

UNIT DESCRIPTOR:

This unit involves the skills and knowledge required to ensure compliance with international and Australian legislative requirements and measures to ensure the protection of the marine environment during operations of an ocean-going vessel, including preventative and precautionary procedures, checking of compliance and remedying non-compliance.

Application of the Unit

Application of the unit	The unit has application in the qualifications for a Master 4, Skipper 2, Watchkeeper (Deck), Master (Less than 500 GT), Engineer Watchkeeper and Integrated Rating, i.e. Certificate IV in Transport&Distribution (Coastal Maritime Operations), Diploma of Transport&Distribution (Maritime Operations - Deck Watchkeeper), Diploma of Transport&Distribution (Marine Engineering - Engineer Watchkeeper) and Certificate IV in Maritime Operations - Integrated Rating)
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Licensing/Regulatory Information

Licensing/legislative requirements	The unit is consistent with the relevant sections of State and Territory marine regulations, NSCV, USL Code, STCW 95, the IMO MARPOL Convention and Marine Orders under the Australian Navigation Act 1912, describing requirements for prevention of pollution of the environment.
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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
1 Maintain compliance with legislative requirements for protection of the marine environment	- a Relevant regulations and procedures for the protection of the marine environment are identified - b Appropriate action is taken in day-to-day work to ensure compliance with relevant regulations and procedures for the protection of the marine environment as required - c Appropriate action is taken where incidences of non-compliance or potential non-compliance are identified in accordance with regulations and procedures - d Any breach of regulations and procedures concerning protection of the marine environment is rectified and/or reported as required within the limits of the officer's responsibility
2 Implement anti-pollution procedures	- a Anti-pollution procedures applicable to vessel operations are followed in the course of day-to-day work - b Appropriate preventative measures are implemented to prevent pollution of the marine environment in accordance with regulations and procedures

ELEMENT	PERFORMANCE CRITERIA
3 Maintain documentation related to legislative requirements for the protection of the environment	- a Requirements for reports and other documentation related to the protection of the marine environment and any breaches of relevant regulations are identified and interpreted as required - b All required documentation related to the protection of the marine environment and any breaches of environmental regulations is completed in accordance with regulations and procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

REQUIRED KNOWLEDGE

This describes the knowledge required for this unit.

- 1 Relevant legislation, codes of practice, policies and procedures to protect the marine environment
- 2 Effects on the marine environment of various possible pollution incidents
- 3 Pollution control problems and related measures to protect the marine environment
- 4 Certificates and other documents required by relevant Australian and/or international legislation and conventions for the protection of the marine environment
- 5 Operational characteristics of emission control equipment used on various types and sizes of vessels
- 6 Operational requirements of water, bilge, waste, pollution and recycling management processes used on various types and sizes of vessels
- 7 Requirements under Australian and/or international legislation and conventions for reporting incidents related to breaches of the statutory codes and measures for the protection of the marine environment

REQUIRED SKILLS

This describes the basic skills required for this unit.

- 1 Read and interpret instructions, procedures and information relevant to legislative requirements and measures to ensure the protection of the environment during vessel operations
- 2 Select and use appropriate communications equipment during environmental protection operations
- 3 Work as a team with others on matters related to the environmental protection during vessel operations
- 4 Take appropriate initiatives related to the protection of the environment during vessel operations

REQUIRED SKILLS AND KNOWLEDGE

- 5 Interpret and apply practices and regulations for pollution control on a vessel
- 6 Communicate effectively with others on matters related to environmental protection
- 7 Modify activities dependent on differing workplace contingencies, risk situations and environments
- 8 Identify and solve problems associated with the protection of the environment during vessel operations and report pollution and environmental issues and take appropriate action based on available information
- 9 Monitor and anticipate problems and risks related to the protection of the environment during vessel operations, and take appropriate action

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: - a Maintain compliance with regulations for protection of the marine environment - b Implement preventative and remedial anti-pollution procedures as per relevant regulations and procedures - c Identify typical pollution control problems and take appropriate action - d Maintain all records concerning anti-pollution measures and breaches of anti-pollution regulations - e Communicate effectively with others concerning measures to protect the marine environment
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Evidence Guide

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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 Consistently applies underpinning knowledge and skills when:
 - 1 completing activities aimed at compliance with relevant regulatory requirements for protection of the marine environment
 - 2 identifying and evaluating problems related to relevant regulations for environmental protection and determining appropriate courses of action
 - 3 following anti-pollution procedures
 - 4 assessing compliance of vessel with relevant regulatory requirements for protection of the marine environment
- c Shows evidence of application of relevant workplace procedures, including:
 - 1 relevant regulatory requirements dealing with environmental protection
 - 2 OH&S regulations and hazard prevention policies and procedures
 - 3 job procedures and work instructions related to environmental protection
 - 4 following on-board housekeeping processes
 - 5 waste, pollution and recycling management processes, where relevant
- d Action is taken promptly to report and/or rectify breaches of environmental protection regulations
- e Work is completed systematically with required attention to detail
- f Recognises and adapts appropriately to cultural differences

Evidence Guide

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in the workplace, including modes of behaviour and interactions between crew and others

Evidence Guide (continued)

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Context of assessment 3	a Assessment of competency must comply with the assessment requirements of the relevant maritime regulations b Assessment of this unit must be undertaken within relevant marine authority approved and audited arrangements by a registered training organisation: 1 As a minimum, assessment of knowledge must be conducted through appropriate written/oral examinations, and 2 Appropriate practical assessment must occur: - i at the registered training organisation; and/or - ii on an appropriate working or training vessel
4 Specific resources required for assessment	Access is required to opportunities to: - a demonstrate performance in suitably simulated activities aimed at the protection of the marine environment covering an appropriate range of situations experienced on a vessel and/or - b contribute to measures to protect the marine environment on a vessel in an appropriate range of situations, weather and loading conditions

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 the relevant Work must be carried out in compliance with mandatory rules and regulations concerning protection of the marine environment.
b. Work is performed:	1 relatively independently under broad operational requirements, with limited accountability and responsibility for self and others in achieving the prescribed outcomes
c. Work involves:	1 the application of regulations and measures to ensure the protection of the marine environment in a wide variety of operational contexts.

2. WORKSITE ENVIRONMENT

a Vessel may include:	1 any Australian or international commercial ocean-going vessel
b Dangers to the marine environment may occur:	1 by day or night in both normal and emergency situations 2 under any possible conditions of sea and weather 3 while underway 4 during berthing and unberthing operations

Range Statement

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	5 while anchoring or mooring
	6 while moored or at anchor
	7 during loading and unloading operations
	8 during slipping, docking and maintenance operations
c Items and equipment checked as part of anti-pollution measures include:	1 pumps and valves 2 emission control equipment 3 fuel management systems 4 water management equipment 5 waste storage and recycling equipment

Range Statement (continued)

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VARIABLE	SCOPE
c Items and equipment checked as part of anti-pollution measures include: (continued)	6 ballast management equipment
d Preventative measures to protect the	1 prevention of spillages of cargo 2 prevention of spillages of fuel and oil

Range Statement (continued)

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marine environment may include:	3 control of polluting emissions of gas and smoke 4 policies and practices to minimise the spread and carriage of marine pests 5 effective management of waste, pollution and recycling processes 6 effective management of ballast operations 7 shipboard housekeeping 8 measures to prevent runoff during slipping operations 9 pollution control instructions
e Documentation and records may include	1 operational orders 2 relevant regulations for the type of vessel involved 3 company procedures related to the protection of the marine environment 4 equipment manufacturer's instructions and recommended procedures 5 instructions of relevant maritime authorities 6 vessel's log where relevant 7 certificates and other documents required by regulations for the protection of the marine environment 8 relevant standards related to the protection of the marine environment, including guidelines issued under the Australian Intergovernment Agreement on a National System for the Prevention and Management of Marine Pest Incursions

Range Statement (continued)

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f Applicable legislation, regulations and codes may include:	1	STCW 95 Code as it relates to protection of the marine environment
	2	sections of AMSA Marine Orders related to protection of the marine environment
	3	Australian Intergovernment Agreement on a National System for the Prevention and Management of Marine Pest Incursions

Range Statement (continued)

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VARIABLE	SCOPE
f Applicable legislation, regulations and codes may include:	4 MARPOL Convention
	5 relevant international, Australian and/or State/Territory legislation related to protection of the marine environment, including

Unit Sector(s)

Not applicable.

Field

Field U Environment

Relationship to other units

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