



Australian Government

MARJ002 Monitor environmental management on a vessel

Release: 2

MARJ002 Monitor environmental management on a vessel

Modification History

Release 1. New unit of competency.

Release 2. Additional job role included in Application.

Application

This unit involves the skills and knowledge required to monitor the implementation of environmental management policies and procedures on a vessel up to 80 metres to ensure compliance with marine regulations and environmental considerations.

This unit applies to people working in the maritime industry on a range of vessels up to 80 metres as a:

- Master Inland Waters
- Master up to 24 metres Near Coastal
- Master up to 35 metres Near Coastal
- Marine Engine Driver Grade 1

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

J - Environment

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

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

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| 1 Ensure crew are able to implement environmental work practices | 1.1 | Information on environmental management policies and procedures is accessible and communicated to crew |
| | 1.2 | Information about identified environmental hazards and outcomes of risk assessments and risk control procedures are accessed and communicated to crew |

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| | 1.3 | Crew are informed of environmental hazards and risk control measures relating to their work responsibilities |
| | 1.4 | Mentoring and coaching are provided to support individuals/crew to implement procedures to support environmental management |
| | 1.5 | Crew is supported to implement relevant principles to meet environmental obligations and regulatory requirements |
| | 1.6 | Crew is consulted and environmental issues relevant to their work role are identified and promptly resolved or referred to appropriate personnel |
| 2 | Monitor observance of environmental management procedures | |
| | 2.1 | Procedures for environmental management on the vessel are clearly defined and followed |
| | 2.2 | Deviations from environmental management procedures are identified and addressed |
| | 2.3 | Personal behaviour is monitored to ensure it is consistent with environmental management procedures |
| | 2.4 | Housekeeping standards on the vessel are maintained |
| | 2.5 | Breaches of environmental protection requirements are documented according to organisational procedures and regulatory requirements |
| 3 | Implement emergency procedures to respond to hazardous events | |
| | 3.1 | Procedures for dealing with hazardous events are promptly implemented as required |
| | 3.2 | Hazardous events are investigated to identify cause |
| | 3.3 | Control measures to prevent recurrence and to minimise risks of hazardous events to the marine environment are implemented |
| | 3.4 | Emergency is reported in accordance with organisational procedures and regulatory requirements |
| 4 | Maintain and improve vessel environmental management | |
| | 4.1 | Risk assessments are conducted and appropriate control measures are identified and implemented according to organisational procedures |
| | 4.2 | Appropriate records and log book entries are made to assist the review of managing environmental protection measures |
| | 4.3 | Potential hazards are identified, assessed and removed or |

reported according to organisational procedures

- 4.4 Recommendations arising from risk assessments are implemented within level of responsibility
- 4.5 Inadequacies in control measures are identified and reported according to organisational procedures
- 4.6 Opportunities for improving environmental performance are identified and raised with appropriate personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Range is restricted to essential operating conditions and any other variables essential to the work environment.

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| Environmental management policies and procedures must include: | <ul style="list-style-type: none">• ballast water control• bilge pumping• disposal of garbage• disposal of waste oil• loss of cargo• loss of vessel• refuelling• sewage control• stowage and management of explosive and flammable material• transfer of fuel |
| Environmental hazards | <ul style="list-style-type: none">• anchoring |

include one or more of the following:

- harm to marine life
- noise
- oil pollution
- polluting emissions of gas and smoke
- spillages of cargo
- spillages of fuel
- waste pollution

Relevant principles include one or more of the following:

- ballast water management
- preventing oil pollution
- sewage discharge
- stowage and management of explosive and flammable materials
- waste collection, treatment, recycling or disposal

Housekeeping standards include one or more of the following:

- pollution control and equipment
- waste minimisation and control

Hazardous events include one or more of the following:

- anchoring in a prohibited sensitive area
- garbage discharge
- polluting emissions of gas and smoke
- poorly maintained equipment and machinery resulting in pollution
- sewage discharge
- spillages of cargo
- waste and debris spillage from oil and fuel containers

Control measures include one or more of the following:

- cofferdams around fuel vents and manifolds
- oil spill absorbent material
- oil spill containment equipment
- oily water separators, if fitted
- sound operational procedures

Unit Mapping Information

This is a new unit. This unit is equivalent to MARJ3001A Monitor environmental management on 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 MARJ002 Monitor environmental management on a vessel

Modification History

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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:

- communicating information about environmental management and related procedures to crew
- ensuring that appropriate and timely action is taken in response to emergencies
- ensuring that environmental records and documentation are accurate, complete and timely, according to organisational and regulatory requirements
- ensuring that housekeeping standards are maintained
- identifying typical pollution control problems and taking appropriate action
- implementing preventative and remedial anti pollution procedures according to organisational and regulatory requirements
- maintaining compliance with legislation for protection of the marine environment
- modelling work policies and procedures to support environmental management
- monitoring responsible resource utilisation on the vessel, consistent with organisational policies
- participating in consultation processes to improve environmental management in the organisation
- participating in investigations of non-compliance and risk assessment processes
- providing access to and maintaining current environmental management information for the crew
- responding to environmental hazard identification and hazardous incidents in an appropriate and timely manner
- reviewing practice and procedures to implement recommendations arising from risk assessments
- supporting others to follow environmental management procedures.
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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:

- documentation system and procedures
- effects on marine environment of various possible pollution incidents
- environmental hazards and control methods associated with work activities on a vessel
- legal responsibilities as determined by relevant legislation, codes of practice, policies and procedures to protect the marine environment
- operational characteristics of emission control equipment used on various types and sizes of vessels
- operational requirements of water, bilge, waste, pollution and recycling management processes used on various types and sizes of vessels
- own responsibilities for preventing pollution of the marine environment
- pollution control problems and related measures to protect the marine environment
- principles of environmental management
- principles of risk management
- requirements for fishing, anchoring and other activities in environmentally sensitive areas
- 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
- responsibilities of self and employer to manage environmental issues
- work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices.
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Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

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 reflect workplace conditions.

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.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.
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