



Australian Government

MARJ5001A Ensure compliance with environmental management legislation

Release 1

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Modification History

Release 1

This is the first release of this unit.

Unit Descriptor

This unit involves the skills and knowledge required to coordinate environmental activities on a vessel to ensure compliance with relevant legislation, regulations, permits and/or licences.

Application of the Unit

This unit has application for a Watchkeeper Deck and Master < 500 GT.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

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| 1 Confirm environmental management responsibilities | <p>1.1 <i>Legislative and regulatory requirements, and approvals</i> that apply to the vessel are interpreted</p> <p>1.2 Own scope of authority/responsibility for achieving specific environmental outcomes for the vessel and the roles of other key personnel are clarified</p> <p>1.3 Resources available to implement environmental management policies for the vessel are identified</p> |
| 2 Develop a positive environmental reputation | <p>2.1 <i>Stakeholders</i>, their relationship to the vessel and perceived attitudes about the vessel are identified</p> <p>2.2 Appropriate strategies are used to foster the trust and confidence of stakeholders</p> <p>2.3 Requests for information are responded to in the appropriate format and a timely manner</p> <p>2.4 Difficult situations are identified and solutions are negotiated using a collaborative approach</p> <p>2.5 Regular feedback is obtained and used to enhance positive relations</p> |
| 3 Provide environmental management information and training | <p>3.1 Environmental management plans and recent incident reports are used to identify training needs of crew members</p> <p>3.2 <i>Information and training</i> is developed and provided to ensure all crew members understand their environmental obligations/responsibilities</p> <p>3.3 Crew member understanding of environmental obligations/responsibilities for work areas and activities is confirmed</p> <p>3.4 Effectiveness of the information and training is monitored and additional information/training is provided as required</p> |
| 4 Assess environmental impacts and risks | <p>4.1 Activities are reviewed to identify implications for environmental management</p> <p>4.2 <i>Potential risks and incidents</i> that may cause harm to the environment are identified</p> <p>4.3 Inspections and in situ measurements are conducted to quantify risks and impacts</p> <p>4.4 Assessment of risks and impacts is reported according to organisational procedures</p> |

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| 5 Ensure environmental monitoring and management plans are implemented | <ul style="list-style-type: none">5.1 Environmental monitoring instruments are checked to ensure they are fully functioning5.2 Specified environmental monitoring and inspections are conducted to check performance against environmental management requirements5.3 Additional monitoring/inspections are conducted after atypical events or requests from authorities to assess whether environmental management plan is operating5.4 Results for monitoring/inspections are analysed to identify significant trends, non-conformance and/or incidents |
| 6 Respond to environmental non-conformance and incidents | <ul style="list-style-type: none">6.1 Unusual situations, unexpected risks/hazards and potential/actual environmental incidents are recognised6.2 Organisational procedures for responding to environmental non-compliance and incidents are implemented to ensure prompt control and remediation6.3 Causes of non-compliance and incidents are investigated according to organisational procedures6.4 Findings are analysed to identify opportunities to improve work practices, environmental controls, crew training and/or management procedures6.5 Corrective/preventative actions are implemented to prevent recurrence of non-compliance and incidents, and to reduce risks6.6 Reports are completed according to organisational procedures |
| 7 Keep the Master informed about environmental performance | <ul style="list-style-type: none">7.1 Regular reports about environmental performance are provided7.2 Opportunities and recommendations for improvements are reported7.3 Master's advice is sought when challenges are beyond own scope of technical competence or when input from environmental specialist may be required |
| 8 Maintain environmental records | <ul style="list-style-type: none">8.1 Required records are prepared and maintained according to regulatory and organisational requirements8.2 Records are stored to enable easy access and review by authorised personnel according to regulatory and organisational requirements |

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required Skills:

- Access, interpret and apply regulatory requirements
- Apply procedures for monitoring vessel operations and ensuring compliance with MARPOL requirements are fully observed
- Clearly explain environmental management concepts, principles and procedures to others
- Maintain accurate environmental records
- Maintain actions to ensure a positive environmental reputation
- Monitor the implementation of environmental management plans, policy and procedures, and specified work methods
- Regularly inspect vessel for environmental risks and impacts
- Respond to complaints and requests for information from authorities and authorised personnel

Required Knowledge:

- Ant-pollution procedures and all associated equipment
- Environmental legislative/regulatory requirements and responsibilities relevant to the vessel
- Environmental protection/management terminology, concepts and principles
- Importance of proactive measures to protect the marine environment
- Organisational environmental management plans, procedures, control measures and management actions for vessel
- Organisational procedures for:
 - identifying and assessing environmental risks and impacts
 - managing stakeholder relations
 - responding to complaints and other environmental incidents
 - record management and reporting
- Precautions to be taken to prevent pollution of the marine environment
- Vessel characteristics and environmental issues, risks and impacts
- Work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, the required skills and knowledge, the range statement and the Assessment Guidelines for the Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the Elements, Performance Criteria, Required Skills, Required Knowledge and include:

- ensuring currency of relevant WHS/OHS skills and knowledge
- ensuring currency of relevant legislative and regulatory knowledge
- attention to appropriate level of detail in recordkeeping.

Context of and specific resources for assessment

Performance is demonstrated consistently over time and in a suitable range of contexts.

Resources for assessment include access to:

- industry-approved marine operations site where ensuring compliance with environmental management legislation may be conducted
- tools, equipment and personal protective equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on work activities
- range of relevant exercises, case studies and/or other simulated practical and knowledge assessments
- appropriate range of relevant operational situations in the workplace.

In both real and simulated environments, access is required to:

- relevant and appropriate materials and equipment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals.

Method of assessment

Practical assessment must occur in an:

- appropriately simulated workplace environment and/or
- appropriate range of situations in the workplace.

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate to this unit:

- direct observation of the candidate ensuring compliance with environmental management legislation
- direct observation of the candidate applying relevant

Guidance information for assessment

WHS/OHS requirements and work practices.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

In all cases where practical assessment is used it should be combined with targeted questioning to assess Required Knowledge.

Assessment processes and techniques must be appropriate to the language and literacy requirements of the work being performed and the capacity of the candidate.

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below.

Legislative and regulatory requirements, and approvals may include:	• Australian and international standards • Commonwealth legislation and regulations • Marine Orders • MARPOL and IMO circulars • State/territory legislation and regulations
Stakeholders may include:	• Cargo owners • Government officials • Port authorities
Information and training may include:	• Due diligence and duty to notify • Environmental management actions and checklists, methods/procedures for specific activities • Incident management and reporting • Introduction to vessel, environmental considerations and sources of environmental information • Legislative requirements • Licensing/compliance requirements • Organisational environmental management policy
Potential risks and incidents may include:	• Ballast water discharge • Disposal of waste material including sewage and garbage • Over-side maintenance work • Spill or release of hazardous chemicals/materials
Environmental monitoring instruments may include:	• Emission control equipment • Fuel management systems • Oily water separators • Waste storage monitoring equipment
Reports may include:	• Hazard near miss report form • Monthly environmental report • Non-conformance report form • Regulatory agency reports • Vessel incident investigation report • Waste disposal log books • Weekly environmental report
Records may include:	• Contractor and supplier information • Correspondence • Digital photographs • Environmental monitoring data

- Records of training
- Records of monitoring equipment purchase, calibration, inspection, maintenance and service
- Records of environmental non-conformance, incidents or significant impacts
- Records required by permit, approval or licence conditions

Unit Sector(s)

Not applicable.

Competency Field

Environment