



Australian Government

MARM005 Assess compliance with marine environment protection requirements

Release: 1

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Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to survey a commercial vessel to determine compliance with marine regulations for the protection of the environment.

This unit applies to people working in the maritime industry as a marine surveyor assistant.

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

Pre-requisite Unit

Not applicable.

Competency Field

M – Marine Surveying

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.

1 Prepare for survey

- 1.1 Relevant national and state/territory standards and regulatory requirements for preventing pollution to marine environment are identified, reviewed and incorporated into survey plan
- 1.2 Sources and types of pollutants common to a range of different commercial vessels are identified and verified with principal surveyor
- 1.3 Powers of surveyor relevant to detecting and reporting marine pollution protection compliance in respect to vessel operations are identified and confirmed against regulatory requirements, and organisational policy and procedures

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|-----------------------------------|-----|---|
| | 1.4 | Preventative and remedial anti-pollution procedures are identified according to relevant standards and regulatory requirements |
| | 1.5 | Survey plan is developed and survey schedule is agreed with relevant personnel |
| 2 Survey compliance levels | 2.1 | Survey is carried out according to agreed schedule, and machinery and equipment are inspected for compliance with marine protection requirements |
| | 2.2 | Flammable and hazardous materials on board vessel are inspected for compliance with storage and anti-pollution requirements |
| | 2.3 | Records relevant to preventing pollution on board commercial vessels are reviewed for compliance with relevant national and state/territory legislation and regulatory requirements |
| | 2.4 | Procedures, systems and measures used to prevent a range of pollution types are reviewed with vessel owner/s or crew |
| | 2.5 | Management of environmental issues that may not be covered under marine safety regulations are identified and communicated to vessel owner/s and crew during survey |
| 3 Finalise survey | 3.1 | Measures for treating a range of different pollutants, machinery and equipment identified as non-compliant are discussed with vessel owner/s and crew |
| | 3.2 | Action plan to rectify this non-compliance is agreed and documented in survey report |
| | 3.3 | Survey report is finalised and reviewed for completeness before submission to the authority |
| | 3.4 | Non-compliance relating to protecting marine environment is recorded and reported according to statutory requirements |

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.

National and state/territory standards and regulatory requirements include one or more of the following:

- Australian Intergovernmental Agreement on a National System for the Prevention and Management of Marine Pest Incursions
- International Convention for the Prevention of Pollution from Ships (MARPOL)
- National Plan to Combat the Pollution of the Sea by Oil
- Protection of the Sea (Prevention of Pollution from Ships) Act 1983
- relevant sections of the National Standard for Commercial Vessels (NSCV) relating to protecting marine environment

Sources of pollutants include one or more of the following:

- bilges
- deck equipment
- engines
- food waste
- fuel:
 - containments and transfer systems
 - pumps
- hydraulic pumps
- lubricants, gas, cleaning and coating products
- sewage pumps
- vents, drains, toilets

Types of pollutants include one or more of the following:

- air
- ballast water
- batteries and gasses
- cargo and packaging
- engine:
 - exhaust fumes and ventilation systems
 - noise
- grey water, black water and ventilation
- noise
- oil, sewage, garbage, noxious substances
- unknown fluids

Preventative and remedial anti-pollution procedures include one or more of the following:

- design and construction features such as save-alls, vents, filling points, combing drains, scuppers, freeing ports, bilges and strum boxes
- legislative requirements such as garbage disposal at sea guidelines for:
 - controlling gas and smoke polluting emissions
 - effectively managing waste, pollution and recycling

	processes
	• effectively managing ballast operations • preventing cargo spillages • preventing fuel and oil spillages
Relevant personnel must include:	• operational procedures such as fuel transfer, ballast operations, cargo operations (including lashing) • pollution control signage • shipboard housekeeping • attending surveyor • environmental protection agency • maritime authorities • owner, master or agent of vessel • other interested parties
Machinery and equipment include one or more of the following:	• effective management of ballast operations • emission control equipment • pollution control instructions • pumps • shipboard housekeeping • valves • waste storage and recycling equipment • water management equipment, including cooling water, ballast water and bilge systems
Flammable and hazardous materials include one or more of the following:	• chemicals • leaning products • LPG cooking gas • lubricants • spare fuel
Records include one or more of the following:	• ballast record book • deck and engine room log books • garbage record books • oil record books • sewage record books, including test results
Environmental issues that may not be covered under marine safety regulations must include:	• ballast water management • damage to sensitive environments through anchoring • fishing restrictions • laying pots/traps/moorings • noise

Unit Mapping Information

This unit replaces and is equivalent to MARM4001A Assess compliance with marine environment protection requirements.

Links

Companion Volume implementation guides are found in VETNet -

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