



Australian Government

MARC012 Monitor and manage vessel operations

Release: 1

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Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to plan and oversee activities associated with the regulatory and operational requirements for the continued performance and safety of a coastal vessel.

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

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

C – Equipment Operations

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 Develop operational strategies and procedures

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| 1.1 | Action plan is developed to provide a clear and coherent direction according to organisational goals and objectives |
| 1.2 | Work health and safety (WHS)/occupational health and safety (OHS) and environmental issues are identified, and strategies are implemented to minimise risk factors |
| 1.3 | Quality system is developed for vessel in line with industry standards, compliance and organisational requirements |
| 1.4 | Performance measures and operational targets are developed to conform with business plan |
| 1.5 | Procedures are established and implemented according to |

		organisational and legislative requirements
	1.6	Procedures are communicated to crew members
2 Supervise crew compliance with regulatory requirements	2.1	Regulatory body requirements are correctly interpreted and applied
	2.2	Instructions for crew members are developed and implemented
	2.3	Crew members are briefed
	2.4	Liaison with regulatory body officials is undertaken
3 Plan resources for vessel operations	3.1	Vessel resource and equipment requirements are investigated and documented
	3.2	Resource needs are prioritised and matched to vessel budget, and priorities are confirmed after consultation with crew members
	3.3	Procurement plan with prioritised purchasing is devised and resources are procured accordingly
4 Plan vessel operations logistics	4.1	Operational work plans are developed
	4.2	Operations are checked to ensure optimum use of human and physical resources
	4.3	Tasks are implemented according to plans and specifications
	4.4	Operational plans are implemented and crew members are briefed as to roles and responsibilities
	4.5	Operational plans are documented and amended according to procedures and crew expectations
	4.6	Proposed variations are investigated and negotiated in consultation with crew members
5 Evaluate operational processes	5.1	Operational progress is closely monitored against required quality of work and adherence to both budget and time schedule
	5.2	Opportunities for preventative or corrective changes are identified using outcomes of monitoring activities and feedback from crew members
	5.3	Preventative and/or corrective action is recommended and implemented

- 5.4 Changes are communicated to appropriate persons in a logical and easily understood manner
- 5.5 Changes are monitored to confirm improvement in crew efficiency

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.

Action plan must include:

- cargo plan
- dry-docking and slipping operations
- planned maintenance system
- safety management plan
- voyage planning

Work health and safety (WHS)/occupational health and safety (OHS) and environmental issues include:

- working at heights
- working in:
 - confined spaces
 - freezer spaces
 - working overside on stages

Operational targets include one or more of the following:

- achievement of key performance indicators (KPIs) from the business plan
- optimum fuel usage

- on time completion of survey and docking operations
- passage planning to achieve safe and efficient routing

Vessel resource and equipment requirements include one or more of the following:

- charts and publications for the intended voyage
- stores, fuel and spare parts sufficient for the voyage
- tools and equipment necessary to conduct planned maintenance

Operational work plans include one or more of the following:

- docking and repair plans
- managing confined space entry
- passage planning
- periodic survey requirements

Unit Mapping Information

This is a new unit. This unit is equivalent to MARC4002A Monitor and manage vessel operations.

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 MARC012 Monitor and manage vessel operations

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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:

- collecting, organising and understanding information related to vessel resource and logistic requirements
- communicating ideas and information to enable input from crew and understanding by crew of plans developed
- completing a review of and updating the process for, vessel operations
- developing effective planning documents
- liaising with other crew members on a range of operational issues and challenges
- monitoring and responding to compliance issues and measuring progress against agreed objectives
- planning and organising activities including consulting with crew to determine resource and logistics requirements, and developing, implementing and reviewing operational plans
- undertaking a job safety analysis for working in areas of high risk
- using information gathering techniques to determine crew requirements and developing strategies to address these
- using mathematical techniques to correctly interpret budgets and estimate material requirements.

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:

- analytical tools
- decision-making models and techniques
- information gathering strategies
- logistics and procurement management techniques
- operational plan development
- resource availability.

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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