



Australian Government

MARB036 Implement vessel planned maintenance system

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package.

Application

This unit involves the skills and knowledge required to establish, organise and implement preventative and reactive maintenance programs to optimise vessel operational performance.

This unit applies to people working in the maritime industry in the capacity of:

- Chief Integrated Rating.

Licensing/Regulatory Information

There are no legislative and regulatory requirements applicable to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Develop maintenance plan

PERFORMANCE CRITERIA

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

- 1.1** Vessel and equipment specifications, service requirements and workplace procedures are checked for recommended maintenance intervals and processes according to the safety management system (SMS)

- 1.2 Special requirements for maintenance are separated from routine maintenance tasks
 - 1.3 Maintenance plan and a related work schedule are developed
 - 1.4 Procedures for safety checks of equipment are developed and documented according to workplace procedures
 - 1.5 Recordkeeping system is developed for maintenance work completed and equipment replaced according to workplace procedures
- 2 Establish maintenance systems**
 - 2.1 Resource requirements are identified and supplied
 - 2.2 Roles and responsibilities of crew are clarified and built into position descriptions and work instructions
 - 2.3 Mentoring and training is provided to support the maintenance strategy
 - 2.4 Maintenance procedures and schedules are prepared to minimise negative impacts on vessel operations, costs, waste and the environment
 - 2.5 Potential risks are analysed and management strategies are recommended
 - 2.6 Contingency plans are prepared
 - 2.7 Maintenance schedules and procedures are effectively communicated to crew
- 3 Implement maintenance plan**
 - 3.1 Consumables and equipment are coordinated to meet maintenance work schedule
 - 3.2 Maintenance work schedule is completed according to maintenance plan
 - 3.3 Technical assistance is provided to crew in completing maintenance activities, as required
 - 3.4 Appropriate readings, measurements and recordings are made and compared to equipment and other relevant specifications
 - 3.5 Areas of vessel and equipment requiring further testing are identified and appropriate procedures for testing are

implemented

- 3.6 Appropriate adjustments are made to maintenance plan based on experience and required documentation is completed
 - 3.7 Maintenance records are completed and forwarded to appropriate personnel
 - 3.8 Areas where changes to equipment operation or routine maintenance are required to maintain optimum work output and equipment life, are noted
- 4 Monitor and review maintenance management system**
- 4.1 Continuous improvement strategies are developed
 - 4.2 Performance criteria for maintenance goals are determined and data collection strategies are established
 - 4.3 Performance information and outcomes are analysed and implications are reported to appropriate personnel

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.

Unit Mapping Information

This unit replaces and is equivalent to MARB018 Implement vessel planned maintenance system.

Links

Companion Volume implementation guide can be found in VetNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>