



Australian Government

MARB3001A Maintain firefighting appliances

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 maintain firefighting equipment. It includes following a maintenance program, working safely, carrying out maintenance and completing necessary maintenance documentation.

Application of the Unit

This unit applies to those working as a Master of a vehicular ferry constrained by cables.

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 Prepare to carry out maintenance | <ul style="list-style-type: none">1.1 Details of <i>firefighting equipment and systems</i> are ascertained from manufacturer documentation and equipment certification documentation1.2 Extent of maintenance to be conducted is established from maintenance schedule1.3 Tools, equipment and testing devices needed to carry out maintenance work are obtained and checked for correct operation and safety |
| 2 Carry out maintenance | <ul style="list-style-type: none">2.1 Work is carried out according to maintenance schedule to ensure all items are correctly maintained2.2 Equipment and systems are checked and tested according to established procedures to determine whether it functions correctly, complies with approval documentation and is not subject to <i>deterioration or damage</i>2.3 Equipment and systems are adjusted or repaired within limits permitted by equipment certification and according to manufacturer instructions2.4 Certification documentation for replacement equipment and systems is sighted to ensure it is identical to equipment it replaces, according to regulatory requirements2.5 Equipment being withdrawn from service is isolated safely according to regulatory requirements2.6 Spare equipment is maintained and suitably stored where it is not likely to suffer deterioration or damage |
| 3 Complete maintenance work inspections and documentation | <ul style="list-style-type: none">3.1 Detailed inspection of equipment and systems subject to maintenance work is arranged according to regulatory requirements3.2 Results of inspections and maintenance activities are recorded according to regulatory and organisational requirements3.3 Appropriate personnel are notified of completion of maintenance and details are documented according to regulatory and organisational requirements |

Required Skills and Knowledge

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

Required Skills:

- Adapt to variations in firefighting equipment and systems on different vessels
- Follow procedures to maintain firefighting equipment and systems
- Interpret technical specifications related to maintaining firefighting equipment and systems
- Recognise faults and problems related to maintaining firefighting equipment and systems
- Take appropriate action to prevent pollution of marine environment

Required Knowledge:

- Faults that can occur with firefighting equipment and systems
- Fire pumps and fire main systems
- Fixed installations, closing appliances and remote shut-offs
- ISM Code safety management system
- Organisational policies and procedures related to maintaining firefighting equipment and systems
- Recommended maker instructions for repair equipment
- Relevant regulations and codes of practice related to maintaining firefighting equipment and systems
- Statutory and organisational requirements for documentation related to maintaining firefighting equipment and systems
- Uses of hoses and nozzles
- Valid survey certificates
- 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:

- attention to detail when completing documentation
- initiating timely action in response to deterioration or damage.

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:

- marine operations site where maintaining firefighting appliances 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 maintaining firefighting appliances
- direct observation of the candidate applying relevant WHS/OHS requirements and work practices.

Guidance information for assessment

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.

Firefighting equipment and systems must include:

- Closing appliances
- Fire pumps and fire main systems
- Fixed fitted detection and suppression systems
- Fixed installations
- Foam applicators
- Hoses
- International ship-to-shore connection
- Nozzles
- Portable and semi-portable extinguishers
- Remote shut-offs
- Stretchers/ropes and lines
- Incorrect stowage of equipment
- Lack of required maintenance

Deterioration or damage may include:

Unit Sector(s)

Not applicable.

Competency Field

Equipment Checking and Maintenance