



Australian Government

MARC056 Operate roll-on and roll-off machinery and equipment on board a vessel

Release: 1

MARC056 Operate roll-on and roll-off machinery and equipment on board a vessel

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 operate equipment and machinery used to open, close and secure hull openings and maintain a safe ventilation of roll-on and roll-off (ro-ro) ventilation systems during voyages.

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

- operating ro-ro machinery and equipment.

Licensing/Regulatory Information

There are currently no legislative and licensing requirements applicable to this unit.

Pre-requisite Unit

Not applicable.

Competency Field

C – Equipment Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare for ro-ro operations

PERFORMANCE CRITERIA

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

1.1 Routine pre-operational checks of ro-ro equipment and machinery are completed according to workplace procedures and manufacturer instructions

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| | 1.2 | Methods of communication are established and agreed to |
| | 1.3 | Faults or malfunctions are identified and reported according to workplace procedures |
| | 1.4 | Work health and safety (WHS)/occupational health and safety (OHS) hazards in work area are identified, and risks are assessed and reported according to workplace procedures |
| 2 | Undertake ro-ro operations | |
| | 2.1 | Suitable personal protective equipment (PPE) is selected and used according to workplace procedures |
| | 2.2 | Hazard control procedures are identified and applied to ensure safe operation of deck machinery and cargo handling equipment |
| | 2.3 | Ro-ro equipment, machinery and cargo handling gear are operated in a safe and controlled manner |
| | 2.4 | Bow, stern and side doors are opened, closed and secured in accordance with workplace procedures |
| | 2.5 | Ramps are operated in accordance with workplace procedures |
| | 2.6 | Surveys are conducted to ensure proper sealing in accordance with workplace procedures |
| | 2.7 | Atmosphere in ro-ro spaces is monitored in accordance with workplace procedures |
| | 2.8 | Ventilation of ro-ro spaces are maintained at recommended safe limits, throughout the voyage in accordance with workplace procedures |
| | 2.9 | Performance and efficiency of ro-ro machinery, equipment and operations are monitored |
| | 2.10 | Safe operational practices are used to anticipate and control hazards |
| | 2.11 | Adverse sea and weather conditions that impact on operation of ro-ro machinery and equipment are monitored and safe work practices are implemented to maintain safety of vessel and personnel |
| | 2.12 | Measures to prevent pollution during normal and emergency situations are applied according to regulatory |

requirements and workplace procedures

3 Complete operations

- 3.1** Shutdown of machinery and equipment is conducted according to manufacturer instructions and workplace procedures
- 3.2** Malfunctions, faults, irregular performance or damage to ro-ro machinery and cargo handling gear and equipment are reported according to workplace procedures
- 3.3** Ro-ro equipment, machinery and cargo handling gear and equipment are maintained and secured according to workplace procedures
- 3.4** Operational records are completed according to workplace procedures

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 is a new unit. No equivalent unit

Links

Companion Volume implementation guide can be found in VetNet -

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

Assessment Requirements for MARC056 Operate roll-on and roll-off machinery and equipment on board a vessel

Modification History

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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:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures
- applying risk assessment and hazard control measures
- communicating with others effectively
- completing required records related to roll-on and roll-off (ro-ro) machinery and equipment
- recognising routine hazards and problems while operating ro-ro machinery and cargo handling gear and equipment
- reporting faulty equipment and taking appropriate action
- using ro-ro machinery and equipment.

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:

- communication techniques needed during vessel operation
- hazard and risk control procedures, including:
 - ventilation
 - wearing appropriate personal protective equipment (PPE)
- problems related to operating ro-ro machinery and equipment and appropriate actions and solutions
- procedures for checking and inspecting ro-ro machinery and equipment used on vessels
- records relevant to ro-ro machinery and equipment
- relevant WHS/OHS requirements, work procedures and pollution control regulations and policies
- ro-ro machinery and equipment operating characteristics and principal features.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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.

Practical assessment must occur in a workplace or realistic simulated workplace, under the normal range of workplace conditions.

Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and relevant personal protective equipment (PPE) currently used in industry.

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