



Australian Government

MARA007 Contribute to safe cargo operations on offshore support vessels

Release: 1

MARA007 Contribute to safe cargo operations on offshore support vessels

Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to undertake a range of offshore activities on board an offshore support vessel (OSV). It includes deck preparation, transfer of deck cargoes, bulk cargo operations and operations with deck equipment within the limits of responsibility of an integrated rating and under the direction of the officer in charge or Master.

This unit applies to Integrated Ratings working in the offshore maritime industry assigned to specific activities and responsibilities.

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

Pre-requisite Unit

Not applicable.

Competency Field

A – Handling Cargo and Vessel Stability

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.

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| 1 Recognise characteristics of OSV cargo and OSVs to ensure the safe transfer and transport of cargo | <table border="0"><tr><td style="vertical-align: top;">1.1</td><td>Features of various offshore installation types, vessels rig types and operations are outlined</td></tr><tr><td style="vertical-align: top;">1.2</td><td>Cargo operations of offshore support vessels are identified</td></tr><tr><td style="vertical-align: top;">1.3</td><td>Properties of cargo being transported are identified and their impact on safety, the environment and vessel operations is recognised</td></tr></table> | 1.1 | Features of various offshore installation types, vessels rig types and operations are outlined | 1.2 | Cargo operations of offshore support vessels are identified | 1.3 | Properties of cargo being transported are identified and their impact on safety, the environment and vessel operations is recognised |
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| 1.2 | Cargo operations of offshore support vessels are identified | | | | | | |
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| | 1.4 | Hazards associated with the transport of cargo are clarified according to emergency response documentation |
| | 1.5 | Hazard controls associated with OSV cargo are employed according to organisational procedures |
| 2 Comply with legislative and organisational requirements for safe transfer and transport of OSV cargo | 2.1 | Safety data sheets (SDS)/material safety data sheets (MSDS)/IMDG Code relevant to cargo are accessed and safety management procedures are identified |
| | 2.2 | SDS/MSDS/IMDG Code are interpreted to identify relevant cargo-related hazards to the vessel and to personnel |
| | 2.3 | Legislative, organisational and company specific requirements are interpreted to identify appropriate actions for safe transfer and transport of cargo |
| | 2.4 | Transfer of cargo is undertaken under direction and within the limits of responsibility of an integrated rating |
| 3 Take precautions to prevent hazards | 3.1 | Organisational policies and procedures to minimise hazards are identified |
| | 3.2 | Type and severity of hazards posed by OSV cargo is recognised |
| | 3.3 | Transfer and transport of cargo is monitored to prevent hazards |
| | 3.4 | Monitoring equipment, where installed, is regularly inspected and used according to organisational procedures |
| 4 Respond to hazardous situation | 4.1 | Source of hazard is identified according to organisational procedures |
| | 4.2 | Risk is assessed considering severity and likelihood of consequences |
| | 4.3 | Control measures to minimise risk are implemented to level of responsibility or referred to appropriate person for permission or further action |
| | 4.4 | Containment procedures are applied where appropriate |
| | 4.5 | Appropriate safety procedures are followed and personal protective equipment is used according to organisational procedures |
| | 4.6 | Risk is eliminated where possible |

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| 5 Take precautions to prevent pollution of the environment from the release of liquid or dry bulk cargoes | <p>5.1 Procedures to prevent pollution are identified and observed at all times</p> <p>5.2 Measures to prevent pollution during normal and emergency situations are applied according to regulatory requirements and organisational procedures</p> <p>5.3 All relevant information is immediately reported to appropriate persons when a spill is detected or a malfunction has occurred that poses a risk of a spill</p> <p>5.4 All required spill containment procedures are correctly implemented according to regulatory requirements and organisational procedures</p> |
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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.

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| Features of various types of offshore support vessels must include: | <ul style="list-style-type: none"> • general arrangement and construction • types of offshore support vessels • types of offshore installations, rigs and platforms |
| Cargo operations must include: | <ul style="list-style-type: none"> • loading, unloading and care in transit of deck cargo • loading and unloading of liquid cargo • loading and unloading dry bulk cargo • piping systems and deck valve arrangements • tubular cargo securing arrangements |
| Properties must include: | <ul style="list-style-type: none"> • deck cargo types and characteristics • hazards of oil cargoes • hazards of noxious liquid substances (NLS) cargo • hazards of offshore cargo operations • tubular cargo stability and securing |
| Cargo must include: | <ul style="list-style-type: none"> • containerised deck cargo • drilling muds |

	• drilling brines • dry bulk cargo • heavy lifts and unusual lifts • NLS • oil • tubular deck cargo
Hazards must include:	• electrostatic hazards • environmental hazards • explosion and flammability hazards • health hazards • pressure hazards • sources of ignition • toxicity hazards
Hazard controls must include:	• atmospheric control • cargo securing arrangements including ensuring safe stowage or lashing of deck cargo • cargo segregation • equipment colour coding • personal protective equipment
Cargo securing equipment must include:	• capstan winches and wires • cargo securing manual • cargo securing pins • chocks • tugger winches and wires • dollies
Measures must include:	• assisting in implementing shipboard cargo securing arrangements • reporting relevant information to the responsible person

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

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