



Australian Government

Assessment Requirements for MARA016 Contribute to safe cargo operations on offshore support vessels

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.

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:

- assisting in implementing shipboard cargo securing arrangements
- carrying out cargo operations safely and according to accepted policies and procedures, including:
 - loading and unloading dry bulk cargo
 - loading and unloading of liquid cargo
 - loading, unloading and care in transit of deck cargo
 - piping systems and deck valve arrangements
 - tubular cargo securing arrangements
- ensuring safe stowage or lashing of deck cargo
- identifying and developing awareness of hazardous situations
- identifying safety data sheets (SDS)/material safety data sheets (MSDS) and/or International Maritime Dangerous Goods (IMDG) Code, relevant cargo-related hazards to vessel and to personnel, and taking appropriate action for safe transfer and stowage of cargo
- interpreting and applying offshore support vessel (OSV) layouts, OSV cargo features, characteristics and hazards, and related hazard prevention strategies to duties on various types of OSVs
- reading and interpreting SDS/MSDS and/or IMDG Code
- recognising hazards and other problems that can arise when managing safety on an OSV, taking appropriate remedial action and initiating appropriate solutions
- reporting relevant information to the responsible person
- using verbal and non-verbal means of communication in a clear and appropriate manner to effectively communicate with other crew members.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- actions and measures to be taken in the event of spillage
- cargo operation procedures, including loading and unloading cargo
- features and characteristics of various types of OSVs, including:
 - general arrangement and construction
 - types of offshore installations, rigs and platforms
 - types of OSVs
- general arrangement and construction of OSVs
- hazards including:
 - electrostatic hazards
 - environmental hazards, including the effects of oil and chemical pollution on human and marine life
 - explosion and flammability hazards
 - hazards associated with:
 - below deck cargo operations
 - OSV bulk and liquid
 - OSV deck cargo operations
 - health hazards
 - pressure hazards
 - sources of ignition
 - toxicity hazards
- hazard control procedures on OSVs
- hazard risk control measures, including:
 - atmospheric control
 - cargo securing arrangements, including ensuring safe stowage or lashing of deck cargo
 - cargo segregation
 - equipment colour coding
 - personal protective equipment (PPE)
- information on SDS/MSDS and/or IMDG Code
- OSV safety culture and safety management systems (SMS)
- piping systems, hoses and valves
- procedures for the safe use of PPE
- properties of cargo being transported, including:
 - deck cargo types and characteristics
 - hazards of noxious liquid substances (NLS) cargo
 - hazards of offshore cargo operations
 - hazards of oil cargoes
 - tubular cargo stability and securing

- shipboard procedures to reflect current International Convention for the Prevention of Pollution from Ships (MARPOL) regulations to prevent pollution
- terminology relating to the structure and operations of various types of OSVs
- work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices.

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 onboard an OSV 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
- cargo, including:
 - containerised deck cargo
 - drilling brines
 - drilling muds
 - dry bulk cargo
 - heavy lifts and unusual lifts
 - NLS
 - oil
 - tubular deck cargo
- cargo securing equipment, including:
 - capstan winches and wires
 - cargo securing manual
 - cargo securing pins
 - chocks
 - dollies
 - tugger winches and wires
- range of relevant practical and written exercises, case studies and simulations that reflect typical conditions found in the workplace
- tools, equipment, machinery, materials and PPE currently used in industry

Links

Companion Volume implementation guide can be found in VetNet -

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