



Australian Government

Assessment Requirements for MARA002 Contribute to safe cargo operations on oil and chemical tankers

Release: 1

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Modification History

Release 1. New unit of competency.

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:

- communicating clearly and effectively
- correctly identifying safety data sheets (SDS)/material safety data sheets (MSDS), relevant cargo-related hazards to vessel and to personnel, and taking appropriate action
- ensuring cargo operations are carried out according to accepted principles and procedures to ensure safety of operations
- identifying and acting on becoming aware of hazardous situation
- interpreting and applying knowledge of tanker layouts, tanker cargo features, characteristics and hazards, and related hazard prevention strategies to duties on various types of tankers and gas carriers
- reading and interpreting SDS/MSDS
- recognising problems and hazards that can arise when managing safety on a tanker, taking appropriate remedial action and initiating appropriate solutions.

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:

- actions to be taken in the event of spillage
- cargo pumps
- corrosion hazards
- effects of oil and chemical pollution on human and marine life
- features and characteristics of various types of tanker cargo
- functions and processes for the calibration of various types of measuring instruments and devices used to test environments on tankers and gas carriers
- general arrangement and construction of tankers
- hazard controls
- hazard control procedures on tankers and gas carriers
- hazards and control measures associated with tanker cargo operations
- hazards associated with:
 - tanker operations
 - carriage of bulk liquids and gases

- hazards to the environment
- information on SDS/MSDS
- Loading and unloading
- measures to be taken in the event of spillage
- physical properties of oil and chemicals
- piping systems and valves
- principles of chemistry as they relate to tanker operations
- procedures for the safe use of personal protective equipment
- procedures to prevent air and water pollution
- reactivity hazards
- shipboard procedures to prevent pollution
- tanker cleaning, purging, gas-freeing and inerting
- tanker safety culture and safety management
- terminology relating to the structure capacities and operations of various types of tankers and gas carriers
- types of oil and chemical tankers
- work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

Links

Companion Volume implementation guides are found in VETNet -

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