



Australian Government

Assessment Requirements for MARL060 Demonstrate knowledge of ships and ship routines

Release: 1

Assessment Requirements for MARL060 Demonstrate knowledge of ships and ship routines

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:

- accessing information required to undertake watchkeeping duties in routine and emergency situations
- applying effective decision-making techniques
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- assessing own work outcomes and maintaining knowledge of current codes, standards, regulations and industry practices
- developing, implementing and overseeing standard operating procedures
- identifying and determining appropriate ways of responding to malfunctions and emergency situations in daily watchkeeping operations
- identifying methods and procedures needed to implement watchkeeping duties on commercial vessels
- identifying, interpreting and processing numerical and graphical information required to undertake watchkeeping duties in routine and emergency situations
- reading and interpreting written instructions, procedures and information relevant to watchkeeping duties.

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 include knowledge of:

- bridge instrumentation, controls and alarms
- bridge resource management systems
- causes of groundings, collisions and casualties
- composition of bridge/engine room management team
- enclosed spaces
- engine room resource management principles, including:
 - allocation, assignment and prioritisation of resources
 - assertiveness and leadership

- considering team experience
- effective communication
- obtaining and maintaining situational awareness
- engineering watchkeeping procedures and practices
- fatigue management principles and techniques
- functions of unmanned machinery space (UMS) controls, alarms and indicators
- general layout of tankers, including:
 - use of manufacturer's manuals
 - use of shipboard drawings
- hierarchy and organisational structure of shipboard personnel, including:
 - crew
 - Master
 - officers
- key international and Australian Standards relating to shipping
- key shipping authorities and organisations, including:
 - Australian Maritime Safety Authority (AMSA)
 - classification societies
 - International Maritime Organization (IMO)
 - National Maritime Safety Committee
 - state and territory marine authorities
- maritime communication techniques, including:
 - use of maritime terminology and technical terminology
- navigational hazards and implications for watchkeeping
- personal and social responsibilities onboard ship, including:
 - alcohol and drug abuse
 - discipline
 - finance
 - health and fitness
 - hygiene
 - relationships
 - safety
- personal task and workload management, including:
 - coordination
 - managing resource constraints
 - managing time constraints
 - personnel assignment
 - planning
- procedures for dealing with malfunctions and emergencies, including:
 - accidents
 - breakdowns

- collisions
- explosion fire
- flooding
- groundings
- relevant sections of maritime regulations, codes and conventions related to the Watchkeeper responsibilities on tankers and gas carriers
- rudder and propeller control and vessel manoeuvring characteristics
- sections of IMO, International Convention on Standards of Training Certification and Watchkeeping for Seafarers (STCW) conventions and codes and AMSA Marine Orders dealing with watchkeeping principles, arrangements, procedures, roles and responsibilities
- shipping terms, including:
 - hogging
 - panting
 - pounding
 - racking
 - sagging
- ship types, including:
 - bulk carrier
 - container
 - general dry cargo
 - passenger
 - roll-on and roll-off (ro-ro)
 - tanker
- signs of fatigue
- terminology relating to the structure, capacities and operations of various types of tankers and gas carriers
- types of ships and key features of ships
- watch handover procedures
- WHS/OHS legislation and policies.

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.

Links

Companion Volume implementation guide can be found in VetNet -

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