



Australian Government

Assessment Requirements for MARC029 Perform rigging on board a vessel

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, performance criteria and range of conditions on at least one occasion and include:

- adapting to differences in vessels, equipment and standard operating procedures
- applying basic rigging operations and using associated equipment according to safe working practices including:
 - checking and using rigging gear when rigging loads
 - lashing cargo, in a range of situations
 - using and maintaining ropes, wires and chains
 - splicing natural fibre and synthetic ropes
 - rigging accommodation ladders, gangways and man baskets
 - rigging and unrigging pilot ladders and hoists
 - rigging a sea anchor to control a specified rate and direction of drift and/or angle to sea
- applying basic rigging operations under normal and adverse conditions of sea and weather:
 - during berthing and unberthing operations
 - while anchoring or mooring
 - when berthed, anchored or moored
 - while underway
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- communicating with other personnel using effective:
 - listening techniques
 - questioning to confirm understanding
 - verbal and non-verbal language
- completing work systematically with required attention to detail
- complying with relevant maritime regulations
- following required work schedule according to company requirements
- reading and applying instructions, safety and standard operating procedures and precautions including:
 - shipboard rigging procedures
 - International Safety Management (ISM) Code safety management system (SMS) procedures
 - WHS/OHS regulations and hazard prevention policies and procedures
 - manufacturer guidelines
 - housekeeping processes
- recognising routine problems during rigging operations on a vessel
- selecting and using rigging and lifting slings and equipment according operating instructions
- taking action to promptly report and/or rectify accidents, safety incidents and operational problems, according to regulations and procedures
- tying required knots and demonstrating rope handling skills including:
 - becket/buntline hitch

- clove hitch
 - common seizing
 - common whipping
 - double sheet bend
 - eye splice
 - figure of eight
 - marlin spike hitch
 - racking seizing
 - reef knot
 - rolling hitch
 - sail maker's whipping
 - sheet bend
 - sheep shank
 - short splice
 - timber hitch
 - truckie hitch
 - west country whipping
- working safely and collaboratively with others during rigging operations on a vessel.

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:

- applicable sections of relevant maritime regulations
- breaking strain and safe working load for slings and equipment
- legal requirements for constructing a pilot ladder
- maintenance and storage procedures for equipment used when working aloft or over the side
- maritime communication techniques
- precautions and procedures for working aloft and over the side
- principles and procedures for lashing and securing cargo, including inspection and maintenance requirements for lashing equipment
- principles of rigging equipment, deterioration and care, and maintenance requirements for different types of rope and wire
- procedures for rigging and preparing personnel access ways
- procedures for rigging and unrigging pilot ladders, hoists, rat-guards and gangways
- procedures for splicing natural fibre and synthetic ropes
- relevant WHS/OHS requirements and work practices
- type and function of rigging, safety and associated equipment, and their limitations
- types of knots, bends and hitches in common use, their characteristics, applications and limitations, and methods of tying them using synthetic and fibre rope of varying construction and size.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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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.

Assessment must occur in workplace operational situations where basic rigging operations can be demonstrated. Where this is not available, assessment must occur in a simulated workplace operational situation that replicates workplace conditions.

Resources for assessment include access to:

- a suitable range of rigging and cargo lashing exercises, case studies and associated resources
- relevant materials, tools, personal protective equipment and equipment that replicate and are currently used in industry for working aloft and over the side including:
 - a range of power and manually operated lifting gear
 - chains, shackles and slings
 - clamps, blocks, eye bolts, turnbuckles, terminators
 - lifting and rigging ropes and hardware
 - gantlines
 - safety harnesses
 - stage
- applicable documentation such as workplace procedures, regulations, legislation, codes of practice and operation manuals including:
 - ISM Code SMS plans, procedures, checklists and instructions
 - relevant international, national, state/territory WHS/OHS legislation
 - relevant Australian and International Standards and regulations
 - supervising engineer orders and instructions
 - vessel and company procedures.

Links

Companion Volume implementation guides are found in VETNet -

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