



Australian Government

Assessment Requirements for MARC060 Use and care for hand and power tools

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:

- adapting to differences in vessels, equipment and standard operating procedures (SOPs)
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- caring for air-operated tools, their supply hoses and hose connections, safely and correctly
- caring for hand and power tools safely and correctly, including cleaning, sharpening or adjusting tools according to SOPs
- communicating with other workplace 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 and safety regulatory requirements
- dressing and truing a grinding wheel
- following required work schedule according to company requirements
- following the orders and instructions of the officer of the watch or designated supervisor
- marking out work to specifications, measuring and checking the quality of finished work, including the correct use of:
 - adjustable gauge
 - callipers
 - centre punch hammers
 - dividers
 - rules and tapes
 - scribes
 - squares
 - trammels
 - vernier callipers and micrometer
- reading, interpreting and applying documentation that includes technical specificity, including:

- basic instructions and SOPs
- work specifications and drawings
- recognising routine problems that may occur when using and caring for hand and power tools, including identifying:
 - glazed, loaded or untrue grinding wheel condition
 - hand and power tools that are found to be defective or worn
 - incidents and problems involving the use of hand and power tools
- selecting appropriate hand and power tools to complete assigned tasks
- storing tools and equipment after use according to SOPs
- taking appropriate action to promptly report incidents, problems and hazards, including equipment faults
- using personal protective equipment (PPE), including:
 - boots
 - eye and ear protection
 - masks
- using tools and equipment safely according to:
 - International Safety Management (ISM) Code and associated vessel safety management system (SMS) and procedures
 - tool manufacturer instructions
 - WHS/OHS regulations and hazard prevention policies and procedures
 - workplace procedures and housekeeping processes
- working safely and collaboratively with others when using and caring for hand and power tools.

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:

- appropriate selection of PPE
- characteristics and identifying features of common engineering drill bits
- environmental protection measures when carrying out basic engineering tasks
- established procedures for the use and care of hand or power tools required for work tasks
- hazards and related safety precautions when using hand or power tools onboard a vessel, including:
 - electric shock
 - moving and rotating blades and attachments
 - non-compliance with safe working procedures
 - poor housekeeping procedures
 - sharp blades
 - sparks in areas where flammable and explosive substances are stored
 - unsecured machinery, components or equipment

- using tools beyond safe working limits or faulty equipment
- ISM Code and safety management procedures as they relate to the use of hand and power tools onboard a vessel
- procedures for dressing and/or truing a grinding wheel
- procedures for identifying a glazed, loaded or untrue grinding wheel condition
- relevant WHS/OHS and pollution control legislation and policies, including the International Convention for the Prevention of Pollution from Ships (MARPOL)
- standard procedures for marking out work to specifications and measuring and checking the quality of finished work.

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>