



Australian Government

Assessment Requirements for DEFWDV030 Employ power tools in an underwater environment

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the DEF Defence Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria on at least one occasion and include:

- applying operating techniques relevant to diving set in use
- applying relevant industry standards, and organisational policies and procedures
- maintaining records according to organisational policies and procedures
- operating a pneumatic or hydraulic compressor, including one or more of the following:
 - adjusting output power
 - connecting hoses and leads
 - connecting to power supply
 - switching compressor on and off
- operating any four of the following power tools on one or more dive occasion:
 - angle grinder, including cleaning and smoothing a fillet, chamfering a 12 mm plate and changing disc on site
 - chainsaw, including cutting wooden beams 230 mm x 100 mm
 - disc cutter, including cutting steel or concrete and changing disc on site
 - drill, including drilling a hole in a steel plate and changing bits on site
 - jack hammer, including breaking concrete
 - power wrench, including changing sockets on site, tightening and loosening nuts
 - scrubber, including cleaning 2 m² of horizontal and vertical surface
- wearing of diving set

Knowledge Evidence

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

- self-contained underwater breathing apparatus (SCUBA), surface-supplied and/or closed-circuit breathing apparatus (CCBA) operating techniques
- dive equipment
- dive physics
- dive physiology and medicine, including:

- compression illnesses
- decompression illnesses
- heat and cold illnesses
- diving descent and ascent techniques
- equipment logbook recording requirements
- general diving safety awareness, including:
 - diving in harbours
 - diving in tidal waters, currents and tides
 - diving on and/or near a ship's bottom
 - entrapment/foul lines
 - lost/separated
 - marine animal threats
 - pollution/weeds
 - working in confined spaces
- oceanography
- power tool equipment, compressor, hoses and leads for the power tools operated, including:
 - causes and remedies for surging
 - control of output
 - effects of temperature and compression ratio pressure/temperature relationships and effects on condensation (e.g. moisture and/or breathing gas)
 - methods of resolving problems
 - physics of operation
 - principles of operation
- organisational policies and procedures
- relevant industry standards
- relevant workplace hazards and hazards of operating power tools in an underwater environment
- use of compressor
- use of power tools.

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 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 replicate 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:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation, including legislation, regulations, codes of practice, workplace procedures and operation manuals
- documentation specific to the dive operation, including dive plan and risk assessment
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry.

Links

Companion Volume Implementation Guides are found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>