



Australian Government

Assessment Requirements for DEFWDV014

Perform concreting in an underwater environment

Release: 1

Assessment Requirements for DEFWDV014 Perform concreting in an underwater environment

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 of the requirements of the elements and performance criteria on at least one occasion and include:

- applying relevant legislation, standards and organisational policies and procedures
- applying underwater risk control measures and work plan requirements
- calculating cement mix ratios according to strength specifications
- completing underwater concrete work including:
 - assembling formwork and stripping agent
 - clearing and levelling site to prepare for pouring
 - ensuring a consistent pour when delivering cement
 - operating cement tools and equipment
 - protecting concrete during curing
- conducting at least one of the following underwater concreting tasks:
 - reinforcing pier legs
 - placing footings
 - laying a slab or ramp.
- developing underwater concreting work plan
- planning underwater concreting work
- using floats and brooms to finish surface.

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:

- concrete setting and strength specifications
- dive equipment
- dive physics
- dive physiology and medicine including:
 - heat and cold illnesses
 - compression illnesses
 - decompression illnesses

- diving descent and ascent techniques
- general diving safety awareness including:
 - diving in harbours
 - diving in tidal waters, currents and tides
 - diving on and/or near a ship's bottom
 - lost/separated
 - entrapment/foul lines
 - marine animal threats
 - pollution/weeds
 - working in confined spaces
- oceanography
- relevant legislation, standards, and organisational policies and procedures
- relevant risk mitigation organisational procedures including workplace hazard mitigation.

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 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 other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- dive location
- ocean with a range of oceanic, diurnal and nocturnal environments
- applicable documentation including organisational procedures, regulations, codes of practice and operation manuals.

When practicable, assessment should relate to the diver's vocational focus.

Links

Companion Volume implementation guides are found in VETNet -

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

