



Australian Government

**Assessment Requirements for DEFWDV011
Perform non-technical structural
inspections underwater**

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

- applying relevant industry standards, organisational policies and procedures
- assisting in providing information for an inspection report
- completing underwater dives
- conducting an inspection task requiring angular and linear measurements on one of the following:
 - pier/bridge – assessment is to be constructed around the examination of an existing pier/bridge requiring some expedient reinforcement to make fit for operational use
 - ship's hull – assessment is to be constructed around a sonar dome housing inspection and poker/feeler gauge surveys
- developing inspection plan in accordance with relevant organisational procedure
- documenting non-technical inspection report
- making underwater field notes and sketches
- measuring and recording underwater structure lengths, gaps, angles and holes in accordance with inspection plan
- planning underwater inspection requirements
- taking measurements under water.

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:

- 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 architecture of piers and bridges
- relevant documentation and inspection proformas
- relevant industry standards, and organisational policies and procedures
- relevant mechanics requirements
- relevant pier/bridge non-technical structural assessment techniques
- relevant ship's hull non-technical structural assessment techniques
- underwater workplace hazards.

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
- ocean with a range of oceanic, diurnal and nocturnal environments
- relevant 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>