



Australian Government

Assessment Requirements for DEFWDV034

Perform non-technical structural inspections under water

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 relevant industry standards, organisational policies and procedures
- applying SCUBA, surfaced supplied and/or CCBA operating techniques
- 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
- maintaining records according to organisational policies and procedures
- 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
- providing information for an inspection report
- taking measurements under water
- wearing of self-contained underwater breathing apparatus (SCUBA), surface-supplied and/or closed-circuit breathing apparatus (CCBA).

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:

- dive equipment
- dive physics
- dive physiology and medicine, including:
 - compression illnesses

- decompression illnesses
- heat and cold 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
 - entrapment/foul lines
 - lost/separated
 - marine animal threats
 - pollution/weeds
 - working in confined spaces
- oceanography
- organisational policies and procedures
- relevant architecture of piers and bridges
- relevant documentation and inspection proformas
- relevant industry standards
- relevant mechanics requirements
- relevant pier/bridge non-technical structural assessment techniques
- relevant ship's hull non-technical structural assessment techniques
- SCUBA, surface-supplied and/or CCBA operating techniques
- underwater workplace hazards.

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>