



Australian Government

DEFWDV009 Conduct an underwater search of a ship's hull

Release: 1

DEFWDV009 Conduct an underwater search of a ship's hull

Modification History

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

Application

This unit specifies the skills and knowledge required to conduct an exterior search of the underwater component of a ship's hull.

It includes defining a ship's hull search area and searching the underwater component of a ship's hull.

This unit relates, in part, to existing standards in the Australian Diver Accreditation Scheme (ADAS). All information was correct at the time of development; however, any diver seeking ADAS accreditation should consult ADAS and not rely on the information contained in this unit.

This unit applies to persons working as Defence personnel with diving duties. But can apply to others working as work divers

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Persons undertaking this unit work independently in a small team and perform routine tasks in a range of contexts that could be unpredictable.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable

Competency Field

Work Diving

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Define search area of ship's hull

2 Refurbish search site

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | |
|-----|---|
| 1.1 | Determine and analyse search task and worksite data to define search area |
| 1.2 | Develop a search plan consistent with dive plan, ensuring scope addresses task requirements |
| 1.3 | Prepare and position search control devices on ship's hull in accordance with search and dive plan |
| 2.1 | Apply manual or visual search methods in accordance with visibility levels, search plan and task requirements |
| 2.2 | Refurbish search site in accordance with search plan |
| 2.3 | Recover, disconnect, refurbish and stow search control devices on completion of search activity |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces but is not equivalent to DEFWDV009B Conduct an underwater search of a ship's hull.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for DEFWDV009 Conduct an underwater search of a ship's hull

Modification History

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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
- conducting an underwater dive to search ship's hull in accordance with dive plan, organisational procedures and search plan
- locating an object (such as a mine) that is attached to a ship's hull and is of a minimum underwater length of 30 metres during a search conducted under poor visibility (maximum of 0.5 metres) that demands the use of manual search techniques
- planning to conduct a ship's hull manual search
- using search control devices in accordance with manufacturer specifications
- working safely throughout dive operation.

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 and search control devices
- 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
- marine, ship and dive hazards
- oceanography
- relevant industry standards, and organisational policies and procedures
- relevant occupational/diving safety awareness
- relevant search device manufacturer specifications
- search techniques.

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
- a ship
- 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

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