



**Australian Government**

# **DEFWDV034 Perform non-technical structural inspections under water**

**Release: 1**

# **DEFWDV034 Perform non-technical structural inspections under water**

## **Modification History**

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

## **Application**

This unit describes the performance outcomes, skills and knowledge required to conduct underwater non-technical structural inspections, such as examining bridges, piers or ship hulls.

It includes preparing and conducting general qualitative underwater inspections (visual and manual), as well as quantitative analysis such as taking basic measurements, including angles, dimensions and lengths.

This unit relates, in part, to existing standards in the Australian Diver Accreditation Scheme (ADAS).

This unit applies to person working as Defence divers but is applicable to all individuals who work in this field.

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, dive plan and procedures must be consulted and adhered to.

Persons undertaking this unit work independently 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**

Defence Work Diving.

## **Unit Sector**

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

#### 1 Prepare for underwater inspection

- 1.1 Identify and determine inspection task, target and available worksite data
- 1.2 Develop inspection plan consistent with organisational procedures
- 1.3 Select and inspect inspection equipment to meet task requirements
- 1.4 Secure inspection equipment safely for transport to and from dive site
- 1.5 Identify obstructions and underwater hazards, assess risks and manage risk control measures in accordance with dive plan

#### 2 Conduct underwater inspection

- 2.1 Secure inspection equipment on self for ease of accessibility and lack of interference to mobility and dive equipment
- 2.2 Clear dive area surface of debris and/or marine growth in accordance with inspection plan
- 2.3 Conduct visual analysis of dive area to identify significant features or defects
- 2.4 Measure underwater structures and record lengths, gaps angle and holes in accordance with inspection plan and task requirements
- 2.5 Take appropriate visual imagery of target

#### 3 Complete post-inspection procedures

- 3.1 Undertake activity to de-service and store inspection equipment after use
- 3.2 Report inspection outcomes and identified faults in accordance with organisational procedures and inspection plan.

## 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 DEF Defence Training Package Companion Volume Implementation Guide.

## **Unit Mapping Information**

This unit replaces and is equivalent to DEFWDV011 Perform non-technical structural inspections underwater.

## **Links**

Companion Volume Implementation Guides are found on VETNet -

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