



**Australian Government**

**DEFWDV022 Dive using closed-circuit  
breathing apparatus (HeO<sub>2</sub>) in open water  
to a maximum depth of 60 metres**

**Release: 1**

# **DEFWDV022 Dive using closed-circuit breathing apparatus (HeO2) in open water to a maximum depth of 60 metres**

## **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 dive using closed-circuit breathing apparatus (CCBA) (HeO2) in an open water environment to a maximum depth of 60 metres.

It includes operating the HeO2 compressor or hand-booster pump, inspecting and operating CCBA (HeO2) equipment, and conducting CCBA (HeO2) specific contingency drills.

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

This unit applies to persons working as Defence Divers but could also 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, dive plan and procedures must be consulted and adhered to.

Persons undertaking this unit work independently and perform specific 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 Operate an HeO2 compressor or hand-booster pump**

- 1.1** Inspect compressor and associated equipment for serviceability and correct gas make-up in accordance with dive brief
- 1.2** Fit appropriate protective equipment in accordance with organisational procedures
- 1.3** Charge HeO2 gas cylinders to maximum working pressure and record details in relevant logs in accordance with organisational procedures
- 1.4** Conduct operator level maintenance on HeO2 compressor and report faults, as required, in accordance with organisational procedures
- 1.5** Undertake compressor post-activity serviceability checks in accordance with manufacturer specifications and report defects, as required, in accordance with operational requirements

#### **2 Conduct dive operations**

- 2.1** Select, inspect and fit CCBA (HeO2), and conduct apparatus test as part of dive preparations prior to entering water and in-water, in accordance with dive plan
- 2.2** Undertake dive activities using CCBA (HeO2) and demonstrate relevant dive contingencies in accordance with organisational procedures and dive plan
- 2.3** Maintain situational awareness of other divers during dive operations
- 2.4** Conduct a mid-water casualty handover between an HeO2 standby diver and a breathing gas standby diver, in accordance with dive plan
- 2.5** Undertake CCBA HeO2 equipment post-dive activity serviceability checks in accordance with manufacturer specifications and report defects, as required, in accordance with operational procedures.

## **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 DEFWDV007 Dive using closed-circuit breathing apparatus (HeO2) in open water to a maximum depth of 60 metres.

## **Links**

Companion Volume Implementation Guides are found on VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>