



Australian Government

DEFWDV014 Perform concreting in an underwater environment

Release: 1

DEFWDV014 Perform concreting in an underwater environment

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 concrete simple forms and excavations in an underwater environment.

It includes preparing for underwater concreting, constructing simple formwork, and positioning reinforcement rods and fixed anchorages. It also includes pouring and screeding the concrete to the required finish, recovering formwork and waste, and deservicing and storing tools.

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 is applicable to other people 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 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

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.

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| 1 Prepare for underwater concreting | <p>1.1 Identify and analyse work task and worksite data to determine the specific requirements for the concrete</p> <p>1.2 Develop work plan consistent with dive plan</p> <p>1.3 Select, inspect and prepare equipment</p> <p>1.4 Secure concreting equipment safely to/from dive site</p> <p>1.5 Assess access obstructions and other underwater hazards to determine risks and to manage risk control measures in accordance with dive plan</p> |
| 2 Concrete underwater site | <p>2.1 Determine safety of work area at worksite</p> <p>2.2 Prepare site in accordance with work plan</p> <p>2.3 Assemble formwork to meet task requirements</p> <p>2.4 Position reinforcing bars, rods, stirrups and mesh, bar chairs and spacers as required</p> <p>2.5 Mix cement and deliver to site in accordance with work plan and concrete strength specifications</p> <p>2.6 Take measures to confirm location and safety of divers prior to commencing pour, in accordance with operational procedures</p> <p>2.7 Spread and screed concrete in accordance with work plan</p> <p>2.8 Undertake tasks to finish surface, ensuring it is protected during curing</p> |
| 3 Complete underwater concreting | <p>3.1 Minimise environmental impact arising from concreting and recover waste materials on completion of task</p> <p>3.2 De-service and store all equipment, in accordance with operational procedures</p> |

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 DEFDV014B Perform concreting in an underwater environment.

Links

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