



**Australian Government**

# **Assessment Requirements for DEFWDV013 Employ air-lift devices underwater**

**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 of the requirements of the elements and performance criteria on at least one occasion and include:

- applying centre of gravity of lifted object
- applying relevant legislation, standards and organisational policies and procedures
- applying underwater risk control measures and work plan requirements
- controlling neutrally buoyant objects
- coordinating with other operators during lift
- demonstrating air-lift operations with manually inflated air bags including:
  - 1 x vertical lift to surface
  - 1 x lateral lift
- determining hydrodynamics of object as it is raised through the water
- developing underwater air-lift work plan
- rigging and de rigging air-lift equipment.

## 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:

- calculations to determination hydrodynamics, centre of gravity and mass of submerged objects
- characteristics and employment of airlift bags
- dive equipment
- 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
- oceanography
- relevant manufacturer specifications
- relevant marine workplace hazards
- relevant legislation, standards and organisational policies and procedures.

## 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, air-lift equipment and personal protective equipment currently used in industry
- ocean with a range of oceanic, diurnal and nocturnal environments
- applicable documentation including organisational procedures, regulations, codes of practice, industry standards and operation manuals.

When practicable, assessment should relate to the diver's vocational focus.

## Links

Companion Volume implementation guides are found in VETNet -

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