



Australian Government

Assessment Requirements for DEFWDV027 Employ air-lift devices under water

Release: 1

Assessment Requirements for DEFWDV027 Employ air-lift devices under water

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 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 SCUBA, surfaced-supplied and/or CCBA operating techniques
- 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 lateral lift
 - 1 x vertical lift to surface
- determining hydrodynamics of object as it is raised through the water
- developing underwater air-lift work plan
- maintaining records according to organisational policies and procedures
- rigging and de-rigging air-lift equipment
- wearing of self-contained underwater breathing apparatus (SCUBA), surface-supplied and/or closed-circuit breathing apparatus (CCBA).

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and include knowledge of:

- calculations to determine hydrodynamics, centre of gravity and mass of submerged objects
- characteristics and employment of air-lift bags
- dive equipment
- dive physics
- dive physiology and medicine, including:
 - compression illnesses
 - decompression illnesses

- heat and cold 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
 - entrapment/foul lines
 - lost/separated
 - marine animal threats
 - pollution/weeds
 - working in confined spaces
- oceanography
- organisational policies and procedures
- relevant dive equipment
- relevant legislation
- relevant manufacturer specifications
- relevant marine workplace hazards
- SCUBA, surface-supplied and/or CCBA operating techniques.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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 simulations
- applicable documentation, including legislation, regulations, codes of practice, workplace procedures and operation manuals
- documentation specific to the dive operations, including dive plan, risk assessment and tasking requirements
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry.

Links

Companion Volume Implementation Guides are found on VETNet -

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