



Australian Government

SFIDIVE314A Perform compression chamber diving operations

Release 1

SFIDIVE314A Perform compression chamber diving operations

Modification History

Release	TP Version	Comment
1	SFI11v2	Initial release. Supersedes and is not equivalent to <i>SFIDIVE306B Perform compression chamber diving operations</i>

Unit Descriptor

Unit descriptor	This unit of competency involves performing a compression chamber diving operation. Licensing, legislative, regulatory or certification requirements may apply to this unit. Therefore it will be necessary to check with the relevant state or territory regulators for current licensing, legislative or regulatory requirements before undertaking this unit.
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Application of the Unit

Application of the unit	Completion of this and other diving units may lead to further accreditation in occupational diving by industry and/or regulatory authorities. Check with the relevant industry or regulatory body for specific requirements. All enterprise or workplace procedures and activities are carried out according to relevant government regulations, licensing and other compliance requirements, including occupational health and safety (OHS) guidelines, and maritime and occupational diver codes of practice and procedures. Equipment operation, maintenance, repairs and calibrations are undertaken in a safe manner that conforms to manufacturer instructions. Appropriate personal protective equipment (PPE) is selected, checked, used and maintained.
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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

HLTFA311A Apply first aid

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Apply knowledge of compression chamber theory when using a chamber	1.1.The layout and functions of <i>compression chambers</i> are accurately identified 1.2.The uses and <i>limitations</i> of compression chambers are fully understood 1.3.<i>Therapeutic tables</i> are understood and employed when using a compression chamber
2. Perform a compression chamber dive to 50 metres	2.1.A compression chamber dive to 50 metres is undertaken using a built-in breathing system to breathe oxygen at a maximum depth of 10 metres 2.2.The effects of a high-pressure environment on dexterity and comprehension are understood, associated <i>hazards</i> identified and appropriate <i>risk control</i> measures taken

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Required skills include:

- recognising symptoms and effects of nitrogen narcosis
- performing post-dive cleaning and maintenance
- performing simple comprehension or dexterity tests
- preparing a chamber prior to a dive
- undertaking a chamber dive to 50 metres using a built-in breathing system to breathe oxygen at a maximum depth of 10 metres
- undertaking a psychological test at the surface and at 50 metres in a compression chamber
- Literacy skills to perform comprehension or dexterity tests
- numeracy skills to perform comprehension or dexterity tests

Required knowledge

Required knowledge includes:

- layout, functions, uses and limitations of compression chambers
- safety procedures in relation to compression chambers
- symptoms and effects of nitrogen narcosis
- the effects of physiological and environmental changes on a person in a compression chamber

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment evidence required to demonstrate competence in this unit

Assessment must confirm the ability to:

- undertake a chamber dive to 50 metres using a built-in breathing system
- perform appropriate tests relevant to chamber dives

Assessment must confirm knowledge of:

- compression chambers
- nitrogen narcosis
- safety procedures

Context of and specific resources for assessment

Assessment is to be conducted at the workplace or in a simulated work environment.

Resources may include:

- compression chamber with built-in breathing system and other associated equipment
- communication system

Method of assessment

The following assessment methods are suggested:

- observation of practical demonstration
- written or oral short-answer testing
- practical exercises
- project work

Guidance information for assessment

This unit may be assessed holistically with other diving units.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant government regulations, licensing and other compliance requirements may include:

- business or workplace operations, policies and practices
- maritime and occupational diving operations, and safety at sea
- OHS hazard identification, risk assessment and control

OHS guidelines may include:

- appropriate workplace provision of first aid kits
- codes of practice, regulations and/or guidance notes which may apply in a jurisdiction or industry sector
- enterprise-specific OHS procedures, policies or standards
- hazard and risk assessment of workplace, maintenance activities and control measures
- induction or training of staff in relevant OHS procedures and/or requirements to allow them to carry out their duties in a safe manner
- OHS training register
- safe systems and procedures for outdoor work, including protection from solar radiation, confined space entry and the protection of people in the workplace
- systems and procedures for the safe maintenance of property, machinery and equipment, including hydraulics and exposed moving parts
- the appropriate use, maintenance and storage of PPE

PPE may include.

- buoyancy vest or personal floatation device (PFD)
- personal locator beacon or Emergency Position Indicating Radio Beacon (EPIRB)
- protective outdoor clothing for tropical conditions

RANGE STATEMENT	
	• sun protection (e.g. sun hat, sunscreen and sunglasses)
Compression chamber may include:	• single-lock • transportable • twin-lock
Limitations may include:	• equipment backup • gas supplies: • oxygen • air • mixed gases • layout • size • transportability
Therapeutic tables may include:	• Royal Navy • US Navy
Hazards may include:	• anxiety • claustrophobia • hallucinations • loss of dexterity • narcosis • overconfidence • panic • task fixation
Risk control may include:	• briefing • emergency procedures • qualified diver • supervisor

Unit Sector(s)

Diving operations