SFIDIVE306B Perform compression chamber diving operations
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Modification History
Not Applicable

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. |

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. |

Licensing/Regulatory Information
Refer to Unit Descriptor
Pre-Requisites

<table>
<thead>
<tr>
<th>Prerequisite units</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>HLTFA301B</td>
<td>Apply first aid</td>
</tr>
</tbody>
</table>

Employability Skills Information

| Employability skills | 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. |
### Elements and Performance Criteria

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>PERFORMANCE CRITERIA</th>
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</thead>
</table>
| 1. Apply knowledge of compression chamber theory when using a chamber | 1.1. The layout and functions of compression chambers are accurately identified.  
1.2. The uses and limitations of compression chambers are fully understood.  
1.3. Therapeutic tables 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 hazards identified and appropriate risk control measures taken. |

### Required Skills and Knowledge

#### REQUIRED SKILLS AND KNOWLEDGE

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

**Required skills**

- 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 used for:**

- performing comprehension or dexterity tests.

**Numeracy skills used for:**

- performing comprehension or dexterity tests.
### REQUIRED SKILLS AND KNOWLEDGE

<table>
<thead>
<tr>
<th>Required knowledge</th>
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<tbody>
<tr>
<td>- layout, functions, uses and limitations of compression chambers</td>
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<tr>
<td>- safety procedures in relation to compression chambers</td>
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<tr>
<td>- symptoms and effects of nitrogen narcosis</td>
</tr>
<tr>
<td>- the effects of physiological and environmental changes on a person in a compression chamber.</td>
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### 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.

<table>
<thead>
<tr>
<th>Overview of assessment</th>
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<tbody>
<tr>
<td><strong>Critical aspects for assessment</strong></td>
<td><strong>Evidence required to demonstrate competence in this unit</strong></td>
</tr>
</tbody>
</table>
| 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. |

<table>
<thead>
<tr>
<th>Context of and specific resources for assessment</th>
<th></th>
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<tbody>
<tr>
<td>Assessment is to be conducted at the workplace or in a simulated work environment.</td>
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</tbody>
</table>
| Resources may include: | - compression chamber with built-in breathing system and other associated equipment  
- communication system. |

<table>
<thead>
<tr>
<th>Method of assessment</th>
<th></th>
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</table>
| The following assessment methods are suggested: | - observation of practical demonstration  
- written or oral short-answer testing  
- practical exercises  
- project work. |

<table>
<thead>
<tr>
<th>Guidance information for assessment</th>
<th></th>
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<tr>
<td>This unit may be assessed holistically with other diving units.</td>
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### Range Statement

#### RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different
## RANGE STATEMENT

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  
sun protection (e.g. sun hat, sunscreen and sunglasses). |
## RANGE STATEMENT

**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)

<table>
<thead>
<tr>
<th>Unit sector</th>
<th>Diving operations</th>
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## Co-requisite units

<p>| Co-requisite units | |
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**Competency field**

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