

**Modification history**

Release	Comments
Release 1	This version released with SFI Seafood Industry Training Package Version 1.0.

SFIDIV311	Perform diving operations using SCUBA
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to use self-contained underwater breathing apparatus (SCUBA) to dive to a maximum depth of 30 metres and complete occupational post-dive activities. It includes the ability to check and prepare equipment, prepare a dive plan, carry out an open water SCUBA dive and post-dive equipment checks.</p> <p>This unit applies to individuals who work as occupational drivers in the seafood industry undertaking tasks in collecting or tending aquatic animals, cleaning and maintenance, environmental surveys, retrieval and water sampling and pest control during diving operations.</p> <p>Occupational licensing, legislative and certification requirements apply to this unit but vary according to state/territory requirements. Occupational diving is regulated independently by each state and territory work health and safety authority. Users are advised to check with the relevant authority to confirm current requirements.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Diving (DIV)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for SCUBA diving operations	1.1 Select, check and prepare equipment for a SCUBA diving operation 1.2 Ensure defective equipment is marked and removed from service by the person in charge of the diving operation 1.3 Don personal protective equipment and diving equipment appropriate to the type and duration of the dive in the correct sequence 1.4 Prepare a dive plan, select and check necessary tools and conduct a risk assessment 1.5 Ensure the dive is recorded by the person in charge of the diving operation
2. Perform open water SCUBA diving operations	2.1 Undertake open-water SCUBA diving operations to a maximum depth of 30 metres according to accepted industry occupational diving guidelines 2.2 Follow decompression and emergency procedures according to accepted industry occupational diving guidelines 2.3 Undertake tender duties in a SCUBA operation according to accepted industry occupational diving guidelines 2.4 Establish and maintain effective communication with surface and dive team
3. Maintain an effective work relationship in a dive team	3.1 Maintain effective teamwork during dive operations 3.2 Follow routine instructions according to dive plan and directions from team members
4. Complete activities after SCUBA dive	4.1 Remove personal protective equipment and diving equipment on completion of the SCUBA diving operation 4.2 Carry out post-dive equipment checks and report faults 4.3 Decontaminate, clean and store equipment according to workplace procedures

<b>Foundation Skills</b>	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
<b>Skill</b>	<b>Description</b>
Numeracy	<ul style="list-style-type: none"> <li>• Make calculations involving pressure, volume and temperature relationships</li> <li>• Interpret decompression tables and data</li> </ul>
Reading	<ul style="list-style-type: none"> <li>• Read and identify required information from diving-related instructions, procedures, regulations, guidelines and texts</li> <li>• Interpret emergency action plan</li> </ul>
Writing	<ul style="list-style-type: none"> <li>• Communicate underwater via slate</li> </ul>
Navigate the world of work	<ul style="list-style-type: none"> <li>• Interpret and follow regulatory requirements and seek clarification or other assistance when required</li> </ul>
Interact with others	<ul style="list-style-type: none"> <li>• Use appropriate terminology, hand and lifeline signals specific to SCUBA and general diving operations</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
SFIDIV311 Perform diving operations using SCUBA	SFIDIV311A Perform diving operations using SCUBA	Updated to meet Standards for Training Packages. Minor amendments to performance criteria for clarity.	Equivalent unit

<b>Links</b>
Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273</a>

<b>TITLE</b>	<b>Assessment requirements for SFIDIV311 Perform diving operations using SCUBA</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all the elements and performance criteria of this unit. There must be evidence that the individual has performed diving operations using self-contained underwater breathing apparatus (SCUBA) on at least one occasion including:</p> <ul style="list-style-type: none"> <li>• completing pre-dive preparations for occupational diving operations</li> <li>• preparing a dive plan and risk assessment</li> <li>• dressing and undressing correctly for SCUBA diving operations</li> <li>• operating SCUBA while in the water</li> <li>• perform tender duties for a diver</li> <li>• undertaking a SCUBA dive in open water to a maximum depth of 30 metres</li> <li>• applying dive-related emergency procedures in the event of an emergency</li> <li>• applying decompression principles, tables and procedures</li> <li>• using, maintaining and storing equipment, including: <ul style="list-style-type: none"> <li>• breathing apparatus - demand SCUBA type (1/2 mask and lightweight full face mask)</li> <li>• communication systems</li> <li>• communication systems</li> <li>• depth-measuring instruments</li> <li>• dive computer</li> <li>• diver's clothing</li> <li>• dive hose</li> <li>• diving watch</li> <li>• gauges</li> <li>• main and reserve air supplies</li> <li>• tethers weights, fins and masks</li> </ul> </li> <li>• working effectively in a dive team</li> <li>• carrying out post-dive equipment checks and maintenance.</li> </ul>	
<b>Knowledge Evidence</b>	
<p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> <li>• function and operating method of equipment required for a SCUBA diving operation</li> <li>• function and regulatory requirements of main and reserve air supplies</li> <li>• common equipment faults and consequences of incorrect use</li> <li>• correct dressing and undressing sequence for SCUBA</li> <li>• testing, assembly and maintenance procedures for SCUBA</li> <li>• hazards associated with SCUBA diving operations and precautions to reduce risk</li> <li>• pressure values for different depths and awareness of pneumofathometer function</li> <li>• legislative, regulatory and industry requirements for SCUBA</li> <li>• diving industry code of practice and guidelines</li> <li>• range of tender duties undertaken in a SCUBA diving operation</li> <li>• methods to enter and exit the water</li> <li>• decompression principles, tables and procedures</li> <li>• anatomy, diving physics and physiology principles relevant to SCUBA diving operations</li> <li>• principles of underwater communication systems</li> <li>• various SCUBA configurations and their key features</li> <li>• diving-related medical conditions and their treatments</li> <li>• pre-dive and post-dive procedures.</li> </ul>	

<b>Assessment Conditions</b>
<p>Assessment of this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"><li>• physical conditions:<ul style="list-style-type: none"><li>• skills must be demonstrated in a diving environment or an environment that accurately represents workplace conditions</li></ul></li><li>• resources, equipment and materials:<ul style="list-style-type: none"><li>• equipment, tools and accessories for SCUBA diving operations</li><li>• dive tables and dive related information</li><li>• proforma for developing a dive plan and risk assessment</li></ul></li><li>• specifications:<ul style="list-style-type: none"><li>• workplace procedures for performing SCUBA diving operations that includes advice on emergency situations</li><li>• access to industry occupational diving guidelines</li></ul></li><li>• relationships:<ul style="list-style-type: none"><li>• interactions with dive team.</li></ul></li></ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>

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