



Australian Government

AHCLPW307 Perform restricted diving for scientific purposes

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to support a diving expedition for scientific research, monitoring and inspection using self-contained underwater breathing apparatus (SCUBA) for both air and enriched air nitrox (EAN) breathing gases.

The unit applies to individuals who work under broad direction and use discretion and judgement in the selection and use of available resources.

Dive certificates and licensing apply for this unit and specific determination should be sought from the relevant state or territory authorities. This unit also requires compliance with the current version of the Australian Standard for training and certification of occupational divers for restricted occupational self-contained underwater breathing apparatus (SCUBA).

Pre-requisite Unit

SISOSCB001 SCUBA dive in open water to a maximum depth of 18 metres

SISOSCB006 Perform diver rescues

HLTAID011 Provide First Aid

HLTAID015 Provide advanced resuscitation and oxygen therapy

Unit Sector

Lands, Parks and Wildlife (LPW)

Elements and Performance Criteria

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. Plan diving operations	1.1 Receive and interpret dive objectives and activities from instructions

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.2 Assess number and type of dives required to meet dive objectives 1.3 Plan and organise a dive program 1.4 Determine equipment and dive team required for dive operations 1.5 Source and secure equipment and dive team for dive operations 1.6 Ensure dive team are competent and possess current medical clearances according to industry standards 1.7 Source and secure first aid equipment and pure oxygen administration equipment 1.8 Obtain and secure permits required for dive plan
2. Prepare for diving operations	2.1 Check serviceability and condition of equipment and resolve defective equipment according to workplace procedures 2.2 Select and prepare dive breathing gas and cylinders according to workplace procedures and industry standards 2.3 Identify and source materials and consumables required for dive 2.4 Develop operational safety and emergency procedures for dive program 2.5 Identify hazards, assess risk and implement controls according to safe diving operations, dive plan and workplace procedures 2.6 Establish communications procedures with dive team 2.7 Develop emergency procedures for dive according to industry standards and codes of practice and emergency management plan 2.8 Communicate emergency procedures and rescue plan to dive team at a pre-dive briefing 2.9 Stow and transport dive equipment and resources to dive site
3. Conduct dives for scientific purposes with SCUBA compressed air, or (EAN) systems	3.1 Perform pre-dive checks according to workplace and standard operating procedures 3.2 Prepare equipment and resources required for compressed air and EAN diving 3.3 Assess environmental factors before entering the water and apply workplace safety procedures 3.4 Conduct dives for scientific purposes to achieve objectives of dive plan according to industry standards and codes of practice 3.5 Operate dive equipment during dive according to manufacturer

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	instructions 3.6 Monitor dive conditions and amend dive procedures according to enterprise requirements, codes of practice and safety procedures 3.7 Monitor and suspend dive according to no-decompression requirements 3.8 Exit water and assist others to exit water safely without damage to equipment 3.9 Update records of dive and activity according to workplace procedures
4. Respond to emergency diving incidents	4.1 Monitor dive operations and identify emergency incidents 4.2 Activate emergency management plan for identified incidents 4.3 Suspend or cancel dive operations according to emergency management plan 4.4 Implement actions according to type and nature of emergency incident 4.5 Apply diver first aid to personnel involved in emergency incident 4.6 Notify authorities where emergency assistance is required according to workplace procedures 4.7 Review emergency incident and modify procedures and dive plan to prevent reoccurrence 4.8 Record emergency incident according to workplace and industry practices
5. Check and store equipment	5.1 Remove and assist others to remove dive attire and equipment according to workplace procedures 5.2 Disassemble and remove equipment from dive site on completion of dive 5.3 Check and test dive equipment for condition and correct operation 5.4 Arrange for repair or replacement of faulty equipment according to workplace procedures 5.5 Store equipment according to manufacturer instructions and workplace procedures 5.6 Maintain records of equipment use according to workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
6. Debrief diving team	6.1 Review and assess procedures and outcomes of dive plan with dive team 6.2 Identify recommendations to amend procedures and dive plan 6.3 Record dive team debriefing session according to workplace procedures
7. Review diving program	7.1 Compile recommendations for amendments to procedures and dive plans 7.2 Review dive plan and amend as appropriate 7.3 Record and report review conclusions

Foundation Skills

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.

Skill	Description
Reading	Interpret dive plans and instructions and consolidates information to determine requirements for dive
Writing	Accurately complete organisational records and programs using clear language and industry terminology
Oral Communication	Effectively participate in verbal exchanges with dive team using collaborative and inclusive techniques including active listening and questioning and reading of verbal and non-verbal signals to convey and clarify information
Numeracy	Interpret numeric information to determine pressures and to assess and calculate dive times based on depth, pressure and no-decompression tables

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLPW307 Perform restricted diving for scientific purposes	AHCLPW305 Perform diving for scientific purposes	Redesigned unit to align with Australian training standards for occupational divers	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>