



**Australian Government**

# **AHCLPW305 Perform diving for scientific purposes**

**Release: 1**

# AHCLPW305 Perform diving for scientific purposes

## Modification History

| Release Number | TP Version | Comments        |
|----------------|------------|-----------------|
| 1              | AHCv1.0    | Initial release |

## Application

This unit of competency describes the skills and knowledge required to dive to support scientific research, monitoring and inspection roles associated with places or areas of significance.

All work is undertaken to legislative, manufacturer, enterprise and code of practice requirements.

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

This unit requires compliance with the current Australian Standard for Occupational Diving Operations: Scientific Diving.

Dive certificates and licensing apply for this unit and specific determination should be sought from the relevant State or Territory.

## Pre-requisite Unit

Nil.

## Unit Sector

Lands, Parks and Wildlife (LPW)

## Elements and Performance Criteria

| Element                                   | Performance criteria                                                                                                                                                                           |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                |
| 1. Plan diving operations                 | 1.1 Determine dive objectives<br>1.2 Assess number and type of dives to develop a dive program that will meet objectives<br>1.3 Determine equipment and personnel required for dive operations |

| Element                          | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                  | 1.4 Consult appropriate people about the dive objectives and proposed program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2. Prepare for diving operations | 2.1 Obtain equipment and personnel required for dive operations<br>2.2 Obtain appropriate notification and consents for dive plans<br>2.3 Check equipment condition<br>2.4 Send faulty equipment for repair or replacement<br>2.5 Assess requirements for and source consumables<br>2.6 Check personnel for competence and possession of a current medical clearance<br>2.7 Develop safety and emergency procedures for the dive program<br>2.8 Conduct a safety hazard analysis and risk assessment                                                                                                                                                                                                                                                                                                                                                  |
| 3. Conduct dive                  | 3.1 Establish communications procedures for all dives<br>3.2 Perform pre-dive checks<br>3.3 Complete assessment of environmental factors before entering the water<br>3.4 Conduct dives within the parameters of the special dive plan, including entry, descent, working on dive objective and exit<br>3.5 Amend dive procedures within enterprise requirements, codes of practice and personal authority in light of dive conditions, and any changes to dive objectives<br>3.6 Monitor dive conditions and suspend or cancel dives where safety or equipment operation considerations warrant<br>3.7 Suspend dives where personnel have completed allowed number of dives according to no-decompression limit tables<br>3.8 Remove equipment from site at completion of dives<br>3.9 Log dives<br>Carry out dives according to Australian Standard |
| 4. Debrief diving team           | 4.1 Review procedures and outcomes after dive<br>4.2 Amend procedures and dive plans<br>4.3 Record dive debriefing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 5. Check and store equipment     | 5.1 Check dive equipment for condition and operation<br>5.2 Send faulty equipment for repair or replacement<br>5.3 Test and store equipment<br>5.4 Record equipment use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 6. Review diving program         | 6.1 Review dive plan in light of debriefing, outcomes achieved, risk assessments and safety analysis and future requirements<br>6.2 Record and report review conclusions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7. Respond to diving             | 7.1 Monitor dive operations to identify potential or actual incidents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| Element   | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| incidents | <p>7.2 Suspend or cancel dive operations where potential or actual maladies have been identified</p> <p>7.3 Ensure a rescue plan has been developed for all dives and that the plan has been communicated to the dive team as part of the pre-dive briefing</p> <p>7.4 Apply diver first aid to injured or distressed personnel</p> <p>7.5 Notify emergency authorities where assistance is required</p> <p>7.6 Review procedures and dive plan in light of risks identified and potential or actual malady</p> <p>7.7 Record all incidents on the enterprise register</p> |

## Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

## Unit Mapping Information

This unit is equivalent to AHCLPW305A Perform diving for scientific purposes.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

# Assessment Requirements for AHCLPW305 Perform diving for scientific purposes

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## Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- plan to carry out a dive
- prepare to dive
- carry out pre-dive checks and safety risk assessments
- monitor dive conditions, respond to incidents and amend dive procedures if necessary
- debrief dive team
- store diving equipment
- dive safely and according to organisational policies and procedures

## Knowledge Evidence

The candidate must demonstrate knowledge of:

- interpretation of no-decompression limit tables to determine maximum length and number of dives allowed
- the physics of diving
- dive equipment
- safety risks associated with scientific dives
- dive planning
- Australian Standards for occupational diving
- rescue procedures
- oxygen administration procedures
- agency standing orders for notification
- emergency service procedures
- dive communication procedures and equipment

## Assessment Conditions

Assessors must satisfy current standards for RTOs.

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