Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCLPW305 | Perform diving for scientific purposes |
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| Application | This unit of competency describes the skills and knowledge required to support a diving expedition for 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.  The 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. |
| Prerequisite Unit | Nil |
| Unit Sector | Lands, Parks and Wildlife (LPW) |

| Elements | 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  1.2 Assess number and type of dives to develop a dive program that will meet objectives  1.3 Determine equipment and personnel required for dive operations  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  2.2 Obtain appropriate notification and consents for dive plans  2.3 Check equipment condition  2.4 Send faulty equipment for repair or replacement  2.5 Assess requirements for and source consumables  2.6 Check personnel for competence and possession of a current medical clearance  2.7 Develop safety and emergency procedures for the dive program  2.8 Conduct a safety hazard analysis and risk assessment |
| 3. Conduct dive | 3.1 Establish communications procedures for all dives  3.2 Perform pre-dive checks  3.3 Complete assessment of environmental factors before entering the water  3.4 Conduct dives within the parameters of the special dive plan, including entry, descent, working on dive objective and exit  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  3.6 Monitor dive conditions and suspend or cancel dives where safety or equipment operation considerations warrant  3.7 Suspend dives where personnel have completed allowed number of dives according to no-decompression limit tables  3.8 Remove equipment from site at completion of dives  3.9 Log dives  Carry out dives according to Australian Standard |
| 4. Debrief diving team | 4.1 Review procedures and outcomes after dive  4.2 Amend procedures and dive plans  4.3 Record dive debriefing |
| 5. Check and store equipment | 5.1 Check dive equipment for condition and operation  5.2 Send faulty equipment for repair or replacement  5.3 Test and store equipment  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  6.2 Record and report review conclusions |
| 7. Respond to diving incidents | 7.1 Monitor dive operations to identify potential or actual incidents  7.2 Suspend or cancel dive operations where potential or actual maladies have been identified  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  7.4 Apply diver first aid to injured or distressed personnel  7.5 Notify emergency authorities where assistance is required  7.6 Review procedures and dive plan in light of risks identified and potential or actual malady  7.7 Record all incidents on the enterprise register |

| 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. | |
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| Skill | Description |
| [Skill] | * [Style to be applied is SI Bullet List 1 * Use sentence case (i.e. commence with upper case) for each bullet point but do not put a full stop at the end * See Guidelines for the skills to be described, the order in which to list them and hints on writing descriptions |
| [Skill] | * SI Bullet List 1 * SI Bullet List 1 |
| [Style to be applied in left column is SI Text[ | * SI Bullet List 1 * SI Bullet List 1] |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCLPW305 Perform diving for scientific purposes  Release 2 | AHCLPW305 Perform diving for scientific purposes  Release 1 | [SI Text] | Equivalent unit |

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

| TITLE | Assessment requirements for AHCLPW305 Perform diving for scientific purposes |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.  There must be evidence that the individual has   * 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 |
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| 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:   * 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 |
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| Assessment of skills must take place under the following conditions:   * [physical conditions:] * [e.g. skills must be demonstrated in [a commercial kitchen/a racing stable/veterinary practice/vineyard] or an environment that accurately represents workplace conditions] * [resources, equipment and materials:] * [e.g. live horses] * [e.g. use of specific tools] * [e.g. use of specific items of personal protective equipment] * [specifications:] * [e.g. use of specific workplace documents such as policies, procedures, processes, forms] * [e.g. use of manufacturer’s operating instructions for specific equipment, machinery, etc.] * [e.g. access to specific safety data sheets] * [e.g. use of workplace instructions/job specifications/client briefs] * [access to specific legislation/codes of practice] * [relationships: (include only if the individual needs to interact with internal and/or external people during assessment of skills): * [e.g. client(s), customer(s)] * [e.g. team member(s), supervisor(s)] * [timeframes: (include only if time is an essential assessment condition) * [e.g. according to time specified in job sheet] * [e.g. within a specific time period] * [final point only ends with a full stop.]   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.  In addition, the following specific assessor requirements apply to this unit:   * Assessors must * SI Bullet List 1: * SI Bullet List 2.] |

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