



Australian Government

AHCLPW313 Undertake sampling and testing of water

Release: 1

AHCLPW313 Undertake sampling and testing of water

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 plan and carry out sampling and testing of water quality as part of a monitoring program.

The unit applies to individuals who work in the land management sector. They work under broad direction and use discretion and judgement in the selection, allocation and use of available resources and for problem solving.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

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 for sampling and testing fieldwork	1.1 Confirm sampling and testing program from supervisor instruction and sampling plan 1.2 Identify parameters for water quality tests 1.3 Identify characteristics and number of samples to be collected 1.4 Identify and select equipment required for water sampling and testing 1.5 Identify hazards, assess risks and implement controls for safe

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	operating conditions and environmental impact of sampling and testing
2. Prepare equipment and resources	2.1 Obtain equipment required for sampling and testing 2.2 Check equipment for availability and serviceability 2.3 Check and calibrate equipment according to workplace procedures and industry standards 2.4 Prepare data or recording documents ready for use 2.5 Secure testing equipment 2.6 Commence use of testing equipment
3. Carry out sampling and testing of water	3.1 Collect and test water samples according to sampling and testing program, industry standards and workplace procedures 3.2 Prepare, package and store samples for transport 3.3 Conduct and record observations for ambient and antecedent environmental conditions 3.4 Report urgent water quality or environmental issues according to workplace procedures
4. Complete water sampling and testing activities	4.1 Clean, check and store equipment 4.2 Consign unserviceable equipment to specialist for repair 4.3 Check data for accuracy and integrity 4.4 Record and report test results and observations according to workplace procedures and traceability requirements 4.5 Report changes in field conditions and equipment

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	<ul style="list-style-type: none"> Interpret and comprehend standards and operating procedures for conducting water tests and recording and presenting results

Skill	Description
Numeracy	<ul style="list-style-type: none"> Calculate quantities and measurements required to prepare water samples and reagents for testing from standards and operating procedures

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLPW313 Undertake sampling and testing of water	AHCLPW306 Undertake sampling and testing of water	Minor changes to Application Changes to Performance Criteria for clarity and brevity Updated Performance Evidence, Knowledge Evidence and Assessment Conditions	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>