



Australian Government

AHCLPW306 Undertake sampling and testing of water

Release: 1

AHCLPW306 Undertake sampling and testing of water

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

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.

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

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

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 for sampling and testing field work	1.1 Confirm monitoring schedule 1.2 Identify water quality and environmental parameters 1.3 Identify samples to be collected 1.4 Determine and arrange equipment requirements for water sampling and testing 1.5 Assess range of likely operating conditions, hazards and difficult or sensitive environments for impact on sampling and testing
2. Prepare equipment and resources	2.1 Obtain equipment required for sampling and testing 2.2 Check and calibrate equipment for availability and serviceability

Element	Performance criteria
	2.3 Verify correct and accurate performance of equipment 2.4 Repair and maintain field-based equipment and instruments 2.5 Collect data or record sheets for use 2.6 Install and protect equipment 2.7 Brief staff undertaking sampling and testing on responsibilities
3. Carry out sampling and testing of water	3.1 Undertake tests in accordance with monitoring plan 3.2 Take and test samples in accordance with monitoring standards 3.3 Prepare, package and send samples to laboratory for external analysis 3.4 Make specific and general observations including information on relevant ambient and antecedent environmental conditions 3.5 Inform appropriate person of obvious water quality or environmental issues immediately
4. Complete water sampling and testing activities	4.1 Clean, repair and store equipment and clothing 4.2 Repair damaged or malfunctioning equipment on site or send to manufacturer or specialist 4.3 Record test results and observations on data sheets 4.4 Report changes in field conditions and equipment

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 AHCLPW306A Undertake sampling and testing of water.

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 AHCLPW306 Undertake sampling and testing of water

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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 a water sampling program under direction according to regulatory and organisation requirements
- test and calibrate equipment according to regulatory and organisation requirements
- sample and test water according to regulatory and organisation requirements
- record results on data sheets
- record and report water testing results to organisational standards
- report obvious water quality issues observed during sampling to supervisor or manager immediately
- apply work health and safety practices in the context of own work

Knowledge Evidence

The candidate must demonstrate knowledge of:

- water monitoring schedules and guidelines
- standards for water quality
- sampling and testing methods

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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