



Australian Government

AHCLPW405 Monitor biodiversity

Release: 1

AHCLPW405 Monitor biodiversity

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to monitor biodiversity in a given area, and record and analyse findings.

This unit applies to natural area managers and those seeking information on natural systems or areas. These individuals take limited responsibility in known or changing contexts within established guidelines.

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. Select monitoring techniques	1.1 Select monitoring operations to obtain required data described in monitoring plan 1.2 Assess range of likely operating conditions, hazards and difficult or sensitive environments for impact on monitoring 1.3 Consider alternative land, sea and air operations to collect data 1.4 Trial operations to test monitoring scheme for reliability, timeline and safety
2. Prepare equipment and resources	2.1 Obtain appropriate certificates, licenses and authorisations

Element	Performance criteria
	2.2 Source equipment required for monitoring 2.3 Transport equipment and personnel to monitoring sites 2.4 Install and protect equipment from weather conditions 2.5 Test equipment and monitoring procedures in field conditions 2.6 Ensure equipment does not have lasting detrimental impacts on the environment 2.7 Develop systems to capture, maintain and analyse data
3. Monitor biodiversity	3.1 Make observations according to monitoring plan 3.2 Record data to monitoring plan and database requirements 3.3 Record location and times of observations
4. Analyse data	4.1 Determine presence of ecosystems and flora, fauna and microorganism populations within specified area 4.2 Identify threats to specified area 4.3 Examine records of monitored data for consistency and accuracy within requirements of the monitoring plan 4.4 Determine whether the observations and measurements are addressing factors and issues consistent with the monitoring plan 4.5 Adjust monitoring techniques to overcome any deficiency or report need for adjustment to monitoring plan

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 AHCLPW405A Monitor biodiversity.

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 AHCLPW405 Monitor biodiversity

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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:

- use monitoring techniques suitable for the environment and species
- install and use monitoring equipment
- develop systems to capture, maintain and analyse data
- make observations and record data on species diversity and abundance
- analyse data
- ensure the monitoring process is correctly targeted and implemented

Knowledge Evidence

The candidate must demonstrate knowledge of:

- ecosystems
- plant and animal classification
- monitoring systems for flora, fauna and microorganism populations
- accepted scientific processes for monitoring biodiversity
- set up and use of monitoring equipment
- data recording and analysis techniques

Assessment Conditions

Assessors must satisfy current standards for RTOs.

Links

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