



**Australian Government**

# **AHCECR502 Conduct biological surveys**

**Release: 1**

# AHCECR502 Conduct biological surveys

## 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 conduct biological surveys and produce a biological survey report, according to client requirements and biological components to be surveyed.

The unit applies to individuals working as land restoration managers who analyse information and exercise judgement to complete a range of advanced skilled activities demonstrating a deep knowledge in specific technical areas within land management. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems.

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

## Pre-requisite Unit

Nil

## Unit Sector

Ecological Restoration (ECR)

## 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. Carry out preliminary design activities for the biological survey | 1.1 Identify survey scope, objectives and constraints according to client brief<br>1.2 Source, collate and evaluate current data relevant to survey requirements<br>1.3 Develop processes for data collection and processing consistent |

| Elements                                           | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>   | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                    | <p>with the survey scope, objectives and constraints</p> <p>1.4 Design survey plan reflecting client requirements and present to client for approval</p> <p>1.5 Incorporate workplace health and safety and environmental sustainability and biosecurity procedures into plan</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2. Determine requirements of the biological survey | <p>2.1 Identify biological survey indicators and evaluate constraints and opportunities for data collection</p> <p>2.2 Identify data collection points that are repeatable and statistically representative</p> <p>2.3 Identify hazards associated with a biological survey, assess risks and develop controls, determine costs, and document in the survey design</p> <p>2.4 Secure permits and approvals required for survey according to ethical standards, workplace procedures and legislative requirements</p> <p>2.5 Determine tools, equipment and machinery required for the survey and confirm availability with suppliers</p> <p>2.6 Schedule survey activities and surveyor access according to the survey design</p> <p>2.7 Document survey procedures and schedules and present to stakeholders and client for approval</p> |
| 3. Conduct the biological survey                   | <p>3.1 Conduct field visit to verify existing data and update information</p> <p>3.2 Conduct the biological survey according to the survey design</p> <p>3.3 Monitor survey activities for accuracy, compliance to the survey design and legislative and ethical standards</p> <p>3.4 Undertake staged data collection according to the survey design, scheduling and surveyor access requirements</p> <p>3.5 Record all monitoring and survey data according to specifications of the survey design</p>                                                                                                                                                                                                                                                                                                                                  |
| 4. Compile a biological survey report              | <p>4.1 Analyse data and draw conclusions based on evidence and reasoned arguments</p> <p>4.2 Prepare a biological survey report according to agreed timeframes and client outcomes and workplace standards</p> <p>4.3 Present report to the client</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 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"><li>Draw on a broad range of strategies to interpret, build and maintain understanding from data sets and reference materials when planning, collating and interpreting survey data</li></ul>               |
| Writing  | <ul style="list-style-type: none"><li>Record outcomes of surveys and incorporate into biological survey reports, expressing ideas and exploring complex issues, and ensuring it is constructed logically, succinctly and accurately</li></ul> |
| Numeracy | <ul style="list-style-type: none"><li>Capture, record and analyse survey data and use calculations to help formulate conclusions</li></ul>                                                                                                    |

## Unit Mapping Information

| Code and title current version          | Code and title previous version         | Comments                                                                                                                                                                                    | Equivalence status |
|-----------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| AHCECR502<br>Conduct biological surveys | AHCNAR502<br>Conduct biological surveys | Changed unit code to reflect new unit sector<br><br>Minor changes to Application and Performance Criteria<br><br>Updated Performance Evidence, Knowledge Evidence and Assessment Conditions | Equivalent         |

## Links

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