



Australian Government

AHCNRM505 Provide technical advice on sustainable catchment management

Release: 2

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Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 6.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to provide technical advice on sustainable catchment management to land managers in a catchment area or region.

The unit applies to individuals in a catchment management role who are responsible for identifying and managing land degradation, as well as providing advice and information on programs and funding for the sustainable management of farms, small properties, recreational land and land used for commercial activities. The person will analyse information and exercise judgement to complete a range of skilled activities.

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

Pre-requisite Unit

Nil

Unit Sector

Natural Resource Management (NRM)

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. Respond to requests for advice on sustainable	1.1 Respond to requests for advice from land managers 1.2 Seek information on location, land management or production

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
catchment management	objectives and land management concerns 1.3 Review state and regional legislation, regulations and strategies relevant to the region in relation to potential constraints 1.4 Confirm options and processes for provision of advice with land managers
2. Identify and analyse land management issues	2.1 Conduct a site assessment to collect information on geological characteristics, ecological processes and biodiversity 2.2 Apply workplace health and safety policies and procedures, environmentally sustainable practices and biosecurity measures when conducting site assessments 2.3 Collect information on land uses and land management techniques 2.4 Interpret and communicate site information for land managers and other stakeholders using supportive and non-threatening communication 2.5 Evaluate the type and extent of land degradation in a site assessment
3. Provide advice on sustainable land and catchment management	3.1 Provide advice according to state and regional legislation, regulations and strategies 3.2 Propose options for changing land management practices according to economic, technical, practical, social and environmental standards 3.3 Advise land manager on outcomes of analysis, land management techniques, planning outcomes and remediation measures 3.4 Provide resource materials and information for supporting programs and accessing funding

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	Organise, assess and review information from stakeholders, land managers and legislation and regulations, and consolidate and

Skill	Description
	rationalise for communicating to stakeholders
Oral communication	Establish and maintain effective communications when discussing, consulting and advising stakeholders

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCNRM505 Provide technical advice on sustainable catchment management Release 1	AHCNRM505 Provide technical advice on sustainable catchment management Release 2	Minor changes to Application, Performance Criteria for clarity Updated Performance Evidence, Knowledge Evidence and Assessment Conditions	Equivalent

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 AHCNRM505 Provide technical advice on sustainable catchment management

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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, on at least one occasion, the individual has provided technical advice on sustainable catchment management to land managers in a catchment area or region, according to state and regional legislation, regulations and strategies and stakeholder requirements.

There must also be evidence that the individual has:

- reviewed state and regional legislation, regulations and strategies for relevance to responsibilities of land managers
- analysed issues, processes and techniques in sustainable land management
- assessed land management practices in complying with long-term objectives of a catchment or region
- sourced and communicated advice on sustainable land management practices to a variety of land managers in a knowledgeable and non-threatening manner.

Knowledge Evidence

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:

- geological processes and influences on land management, including:
 - rock types and weathering
 - soil formation and soil types
- ecological processes, including:
 - energy flow through ecological systems
 - matter flow through ecological systems
 - nutrient cycling

- land degradation processes and impacts, including:
 - soil compaction
 - erosion
 - tree decline
 - pest plant and animal infestations
 - eutrophication
 - acidification
 - salinity
 - fertility decline
- catchment management principles, including:
 - catchment planning priorities and programs
 - roles and responsibilities of land users in catchments
- biodiversity, including:
 - basic plant identification techniques
 - animal identification
 - ecological vegetation communities
- whole property planning principles:
 - energy flows
 - sustainable water management
 - land capability.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an environment that accurately represents workplace conditions
- specifications:
 - workplace policies, procedures and processes for catchment management
 - catchment management plans
 - legislation and regulations for catchment management
- relationships:
 - land managers.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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