



Australian Government

AHCECR506 Develop and implement sustainable land use strategies

Release: 1

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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 develop and implement sustainable land use strategies that lead to improved ecological sustainability of land under production.

The unit applies to individuals who manage agricultural and production horticulture enterprises and who analyse information and exercise judgement to complete a range of advanced skilled activities demonstrating a deep knowledge in land management practices. 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. Assess requirements for improved land use	1.1 Audit site natural resources and identify threats to sustainability 1.2 Review production and management plans for sustainable land use principles

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Assess water resources, quality and impact on erosion 1.4 Assess soil health and fertility against production plan requirements 1.5 Assess vegetation types and coverage, and identify required changes 1.6 Plan and prioritise land and water protection measures and structures
2. Carry out structural improvements to address threats to sustainability	2.1 Follow workplace health and safety policies and procedures in field work 2.2 Inspect site, record key features and indicate on the site where improvements are required 2.3 Determine materials for construction from plans and specifications 2.4 Obtain and organise materials, personnel and equipment 2.5 Select and check equipment for safe and environmentally sustainable operation 2.6 Construct structural works, revegetate area and secure area from livestock
3. Treat areas of land degradation	3.1 Assess land classes and align fences and soil conservation works consistent with class 3.2 Protect and maintain contour banks to avoid degradation 3.3 Construct and maintain water carrying structures 3.4 Establish shelter belts for crop and stock protection 3.5 Review and amend soil cultivation and planting practices to prevent erosion 3.6 Plan grazing strategies to avoid localised soil degradation 3.7 Confirm works and plans comply with environmental protection legislation, regulations and codes of practice

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 critique data and information from production plans, management plans, maps, images, legislation and regulations for incorporation into designing land use strategies

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCECR506 Develop and implement sustainable land use strategies	AHCNAR506 Develop and implement sustainable land use strategies	Changed unit code to reflect new unit sector Changes made to Application and Performance Criteria for clarity 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>

Assessment Requirements for AHCECR506 Develop and implement sustainable land use strategies

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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 the individual has developed at least five sustainable land use strategies for a specified land use and has implemented at least one of the strategies over a period of six months.

There must also be evidence that the individual has:

- identified the threats to sustainable practices for the specified land use area
- managed water resources and impact on riparian zones
- managed vegetation and plant succession
- managed the health and sustainability of soils
- embedded the principles and practices of health, safety and biosecurity legislative requirements into land use strategies.

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:

- the role of biodiversity in farming systems, including:
 - importance of biodiversity farming systems
 - terrestrial plants and basic plant community structures
 - subsurface water and plant communities and impact on saline environments
 - methods for preserving biodiversity
- sustainable land and water use principles and practices, including:
 - advantages and limitations
 - environmental sustainability as a 'whole-system' approach
- recognition and management of land classes
- sustainable soil management, including:
 - causes of land degradation

- soil type and geology and impact for land use and access
- grazing strategies to reduce surface cover on pastures and embankments
- soil appraisal and remediation strategies
- causes of erosion and erosion control strategies
- production practices and soil management
- environmental controls and codes of practice applicable to the business and to the improvement works, including:
 - water use and water catchments
 - sources and damage of pollutants
 - waste minimisation and sustainable disposal
 - natural and human threats to sustainable land use
 - interactions between production systems and natural areas
- legislation and regulations for soil and water degradation, chemical use and structural works
- workplace health and safety and environmental protection legislation, regulations and codes of practice including biosecurity.

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 the field resources, equipment and materials:
 - equipment, machinery, plants and consumables required to implement the specified land use strategies
- specifications:
 - workplace policies and procedures for preparing strategies
 - legislation and regulations relevant to land use and biosecurity.

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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