



Australian Government

AHCECR301 Maintain native ecosystem areas

Release: 1

AHCECR301 Maintain native ecosystem areas

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 implement maintenance work within native ecosystem areas.

The unit applies to individuals who work on land management projects under broad supervision and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving 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. Plan maintenance works	1.1 Plan access to site to minimise disturbance and degradation 1.2 Identify legislative requirements, codes of practice and relevant management strategy and plan 1.3 Identify relevant environmental factors in maintenance works 1.4 Consult stakeholders about pending maintenance works 1.5 Determine and obtain equipment, machinery and materials for maintenance works

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.6 Conduct pre-operational machinery checks according to environmental, biosecurity and safety requirements 1.7 Identify hazards, assess risk and implement controls according to workplace health and safety procedures
2. Undertake maintenance	2.1 Follow environmental sustainability and biosecurity policies and procedures when undertaking maintenance work 2.2 Undertake ecological restoration site maintenance works according to plans 2.3 Confirm maintenance works conform to relevant risk control measures and practices 2.4 Implement interim protective measures to avoid degradation and disturbance during maintenance works 2.5 Monitor activities of personnel and visitors to reduce risks to the significance of site
3. Complete activities	3.1 Clean and restore site on completion of works 3.2 Clean and store equipment and machinery 3.3 Remove and store or dispose of excess materials from site according to workplace requirements 3.4 Report completed maintenance works to supervisor according to workplace and legislative requirements

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	Interpret plans, specifications and legislative requirements, and consolidate information to determine maintenance tasks and performance standards
Oral communication	Participate in verbal exchanges with stakeholders using appropriate collaborative and inclusive techniques relevant to the individual, including active listening, questioning and reading of verbal and non-verbal signals to convey and clarify maintenance

Skill	Description
	activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCECR301 Maintain native ecosystem areas	AHCNAR301 Maintain natural areas	Change to unit code to reflect new unit sector Change to title Change to Application Minor changes to Performance Criteria for clarity and consistency 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 AHCECR301 Maintain native ecosystem areas

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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 planned and prepared resources to maintain a natural area, as well as maintained a natural area in any two different ecological environments.

There must also be evidence that the individual has:

- accessed site and minimised damaging impact
- consulted with stakeholders, including traditional owners, about pending maintenance works
- carried out planned maintenance works with minimal damaging impacts to environment, and according to workplace health and safety practices
- selected and applied protective structures, devices and signs
- cleaned site and removed surplus materials and waste
- reported completion of activities to supervisor
- applied biosecurity measures and sustainable practices during work.

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:

- ecological principles related to maintaining natural areas, including:
 - recognition of fundamental ecosystem structures and required maintenance
 - interactions between flora and fauna and impact on ecological stability when poorly maintained
 - vegetation types and their general characteristics for replication in maintenance activities
- importance of biodiversity in an ecologically stable community:
 - terrestrial plants and basic plant community structures

- marine and water plants and interaction with marine creatures
- contribution of maintenance works on preserving biodiversity
- intricate relationships between microbiota, including insects, molluscs, worms and microbes, and impact on maintenance practices
- environmental factors to be considered in maintenance works, including:
 - ecology in land based, coastal zones or marine parks
 - marine, shore and terrestrial species
 - natural and human threats to places of natural significance
 - pollution sources and damage potential
 - soil type and geology for access and performing maintenance activities
- basic protection/restoration or rehabilitation methods
- protocols of engaging with traditional owners and the consultation process
- seeding techniques, including:
 - hand seeding
 - broadcast sowing
 - ripping trailed machinery
- vegetation replacement methods and their application in restoration programs, including:
 - assisted natural regeneration
 - planting
 - seeding
 - transplanting
- recognition of common weeds and pests and their impact on natural areas, including:
 - weed control methods and application, including use of herbicides
 - basic plant protection, fences and guards from impact of animals
 - damaging effects on natural areas caused from pests
- purpose and processes for natural area restoration, including implementing biosecurity procedures to minimise the transfer of pests and diseases into natural areas, including weed seed, plants, animals and microbial organisms
- standards and procedures for planting nursery stock and transplants into natural areas, including:
 - basic soil or substrate identification
 - soil or substrate preparation and amelioration
 - soil or substrate and plant root contact
 - irrigation methods and procedures for watering in planted materials
- workplace health and safety procedures, including:
 - safety hazards and associated risks on restoration sites
 - personal protective equipment
 - mixing and using herbicides
 - sun protection

- requirements of traditional land owners, government and non-government agencies, special interest groups and other stakeholders about diversity of natural area usage, including:
 - natural areas on private land
 - natural areas on public land
 - commercial use
- applicable state or territory and commonwealth legislation covering parks, conservation, environmental protection and heritage.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated on a natural area as specified in the Performance Evidence
- resources, equipment and materials:
 - use of tools appropriate to the maintenance tasks identified in the maintenance plan
 - use of personal protective equipment
- specifications:
 - workplace policies and procedures for safety, biosecurity and maintenance tasks
 - workplace instructions, and natural area maintenance plan with specifications specific to the site
 - legislative requirements for records
- relationships:
 - supervisor.

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

Links

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