



Australian Government

AHCECR401 Supervise ecological restoration works

Release: 1

AHCECR401 Supervise ecological restoration works

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 work programs, organise resources and supervise ecological restoration works for revegetation programs.

The unit applies to individuals who apply specialist skills in ecological restoration and who provide solutions to technical and unpredictable problems. They work autonomously, instruct, and monitor the work of others within a team. They use discretion and judgment in the selection, allocation and use of available resources.

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. Identify scope of ecological restoration works	1.1 Identify nature and scope of works and extent of responsibilities against project brief 1.2 Confirm or create site map for works 1.3 Determine personnel and resources required for project 1.4 Develop a work program to meet scheduled project outcomes

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Identify potential environmental impact of proposed restoration work, and implement controls 1.6 Identify workplace health and safety hazards, assess risks and implement, monitor and review controls
2. Coordinate the supply of materials and equipment	2.1 Identify and organise materials, equipment and resources required for project 2.2 Calculate quantities and order materials according to quality specified in project brief 2.3 Confirm delivery requirements with suppliers 2.4 Reconcile specified quantity and quality of delivered materials against order and specifications 2.5 Return substandard materials for replacement 2.6 Store materials ready for use in line with manufacturer's guidelines 2.7 Check equipment availability and serviceability for use on site
3. Supervise and monitor restoration works	3.1 Coordinate work team to carry out restoration works 3.2 Monitor changes to project brief and adjust program works to meet project outcomes 3.3 Provide instructions to supplementary workers according to workplace procedures 3.4 Identify, record and report difficulties in meeting project outcomes to stakeholders 3.5 Calculate the cost of reported difficulties and forward variations for approval according to workplace procedures 3.6 Conduct periodic quality inspection of work against project outcomes and arrange progress payments to contractors 3.7 Monitor site for safety and environmental health throughout works, and implement action to rectify concerns 3.8 Monitor team to ensure adherence to workplace health and safety, environmental sustainability and biosecurity policies and procedures
4. Prepare site for completion	4.1 Inspect site for completion of works according to project brief 4.2 Identify incomplete works and rectify according to the contract specification and workplace procedures 4.3 Report restoration works to stakeholders according to workplace

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures and project brief 4.4 Process documentation for contractors for final payment

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	Critically analyse project plans and specifications and consolidate information into schedules, programs, materials and equipment requirements, and to monitor contractor performance
Writing	Develop programs and prepare reports to stakeholders, and prepare reports and documents to administer contractors, using clear and accurate language
Oral communication	Use collaborative and inclusive techniques, including active listening and questioning and reading of verbal and non-verbal signals, to convey and clarify instruction to workers and contractors and provide reports to stakeholders
Numeracy	Interpret and perform calculations to analyse materials and resource requirements and to determine labour costs and quantities to accurately report on progress and determine payments

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCECR401 Supervise ecological restoration works	AHCNAR401 Supervise natural area restoration works	Changed unit code to reflect new unit sector Title changed Changes to Application and Performance Criteria for clarity	Equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
		Updated Performance Evidence, Knowledge Evidence and Assessment Conditions	

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 AHCECR401 Supervise ecological restoration works

Modification History

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

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 determined resource requirements, acquired resources and supervised restoration work of at least two ecological restoration projects.

The must also be evidence that the individual has:

- conducted a site safety risk assessment and implemented controls during project
- scoped the work requirements against specifications in project brief
- developed a work program and sourced labour, equipment and materials required to undertake the work
- coordinated work team to achieve performance targets
- monitored work program progress and made adjustments to achieve outcomes
- inspected completed work and ensured specifications and environmental targets were met
- reported project completion to stakeholders according to workplace requirements
- monitored the application of sustainability practices, workplace health and safety procedures and biosecurity measures.

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 restoration principles, approaches, strategies, tactics and techniques to avoid negative environmental impacts
- scheduling work, including:
 - work team and contractors
 - availability of consumables and materials
 - availability and operational performance of machinery and equipment
- working with plans and contracts and assessing performance targets
- environmental factors to be considered in restoration works, including:

- the role of native plants and animals in the ecosystem of the site
- vertebrate pests and options for control
- impact of weeds and pests and appropriate control methods
- ability to assess restoration potential of sites
- ecological principles related to restoration of ecological sites, including:
 - recognition of fundamental ecosystem structures
 - interactions between flora and fauna and impact on ecological stability
 - vegetation types and their general characteristics relevant to restoration activities
 - ecology in land based, coastal zones or marine parks
 - marine, shore and terrestrial species
 - inland aquatic systems
 - natural and human threats to places of natural significance
 - environmental threats and damage potential
 - soil type and geology for accessing sites and conducting revegetation work
- supervisory skills and working with work teams and contractors:
 - assessing performance
 - rectifying performance issues
 - reporting procedures
- engagement of contractors and procedures, including:
 - work contracts and specifications
 - work progress reports and progress payments
 - site safety expectations
 - practical completion certification
- workplace health and safety procedures, including:
 - safety hazards and associated risks on restoration sites
 - personal protective equipment required by work teams
 - sun protection
 - materials handling safety.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated for an active ecological restoration worksite or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - materials and other resources as specified in project brief
 - specific tools and equipment required to perform restoration activities
- specifications:

- specific workplace policies and procedures for safety and supervision work
- ecological restoration plan and specifications
- relationships:
 - stakeholders
 - work team and contractors
- timeframes:
 - according to timeframes specified in project brief.

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

Links

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