

Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.

AHCECR2XX	Carry out basic ecological restoration works
Application	<p>This unit of competency describes the skills and knowledge required to carry out basic ecological restoration works following a restoration plan or minimal brief.</p> <p>The unit applies to individuals engaged in conservation and land and water management programs and who undertake defined routine activities under supervision. They exercise limited autonomy within established and well known parameters, providing solutions to a limited range of predictable problems.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Natural Area Restoration (NAR) or Ecological Restoration (ECR)

Commented [WH1]: This is a proposed name change for the Natural Area Restoration sector

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 activities and inspect site for required works	1.1 Locate work site from project brief 1.2 Locate elements within site that are intact and require protecting according to project brief 1.3 Identify areas on site that have potential for natural or assisted regeneration according to project brief 1.4 Identify or confirm areas requiring reintroduction of biota according to project brief 1.5 Identify treatments for specific locations on site according to project brief 1.6 Confirm site works with supervisor
2. Prepare for basic ecological restoration work	2.1 Identify site specific environmental and WH&S hazards, assess the risks and report to supervisor 2.2 Select, prepare and transport tools, equipment and machinery for site works 2.3 Carry out pre-operational and safety checks on tools, equipment and machinery 2.4 Identify and implement biosecurity control measures 2.5 Select, check and use personal protective equipment
3. Implement basic ecological restoration treatments	3.1 Prepare tools and materials for ecological restoration treatments according to project brief 3.2 Apply basic substrate and hydrological treatments according to project brief 3.3 Control competing undesirable biota according to project brief 3.4 Install basic habitat elements according to project brief 3.5 Apply basic reintroduction of biota according to project brief 3.6 Follow work health and safety policies and procedures during works

Commented [t2]: We are not differentiating pre-treatments and treatments in this introductory unit. They are all part of it. In the specialised 'reconstruction' unit, pre-treatments are identified separately

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Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Complete basic ecological restoration works	4.1 Install and maintain security, support or protection devices according to project brief 4.2 Undertake follow up of control of competing species or adjust soil, hydrology or habitat elements according to project brief 4.3 Clear and dispose of site waste according to environmental procedures 4.4 Clean, maintain and store tools, equipment and machinery 4.5 Report work outcomes according to workplace procedures

Foundation Skills	
<i>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.</i>	
Skill	Description
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Commented [RB3]: RB to complete after confirmation of Performance Criteria

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCECR2XX Carry out basic ecological restoration works	Replacement unit for NAR201 Carry out natural area restoration works		No equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72
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TITLE	Assessment requirements for [Unit code and title in sentence case]
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has performed ecological restoration works for at least two different ecological environments.</p> <p>There must also be evidence that the individual has:</p> <ul style="list-style-type: none"> • established activities for works from the project brief and confirmed with supervisor • confirmed appropriate project goal, approaches, methods and treatments according to workplace procedures and practices • inspected site for intact elements, including: <ul style="list-style-type: none"> • biota • soil profiles • other substrates • identified treatments from project brief, including: <ul style="list-style-type: none"> • substrate • hydrological • habitat • competition • reintroduction • protected existing biota, habitat features and substrates according to project brief • prepared and carried out at least two (2) of the following assisted regeneration treatments as part of a team: <ul style="list-style-type: none"> • removal of competing biota • installation of habitat features • applied disturbance to trigger recovery • prepared and carried out basic control of competing species as part of a team • transported tools and materials to site • carried out biological reintroduction treatments to industry standards including two (2) of the following methods: <ul style="list-style-type: none"> • transplanted stock from natural area • planted nursery stock • sown seed or other propagules • secured and protected the restored area • removed waste and cleaned the site according to workplace environmental procedures • carried out work according to industry standards and work health and safety requirements. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • basic principles of ecological restoration as conveyed in enterprise standards • the concept of ecosystem resilience and its application in areas of different degradation level • basic mechanisms of natural recovery, including: <ul style="list-style-type: none"> • resprouting • cell division • propagule banks • basic ecological restoration approaches suited to different degrees of degradation • basic ecological restoration techniques suited to different species and degrees of degradation • common names of key native plants, animals and other organisms present in restoration area • native plant and animal growth and habitat requirements specific to the ecosystems in a restoration area • common names of weeds, pest animals and other undesirable organisms present in restoration area • key physiological characteristics of undesirable species relevant to their control 	

Commented [RB4]: To what does this refer?
Can these be listed too?

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Knowledge Evidence

- the role of genetic diversity and integrity in fragmented ecosystems with a basic consideration of implications of climate change.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in the field as specified in the performance evidence
- resources, equipment and materials:
 - tools and equipment required for ecological restoration works
 - materials required for treatments
- specifications:
 - use of specific workplace procedures and processes
 - access to specific safety data sheets for chemical treatments
 - use of workplace instructions and project brief
- relationships:
 - team members
 - 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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