



Australian Government

AHCECR310 Implement assisted regeneration works

Release: 1

AHCECR310 Implement assisted regeneration 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 assist the regeneration of a degraded terrestrial or aquatic ecosystem harnessing potential from on-site components or colonisation from nearby areas, through ecological interventions and treatments specific to site.

The unit applies to individuals who work 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. Interpret work requirements for site	1.1 Conduct site inspection to identify intact ecological features and potential threats to regeneration species 1.2 Record the ecosystems and communities present on site 1.3 Identify boundaries of the assisted regeneration zones for site 1.4 Identify factors preventing natural recovery of biota across site

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 assisted primary and secondary regeneration treatments to trigger recovery of species for ecosystem 1.6 Identify timing of primary and secondary treatments
2. Prepare for assisted regeneration works	2.1 Identify hazards, assess risks and implement controls according to workplace health and safety and environmental procedures 2.2 Identify biosecurity and environmental risks and threats 2.3 Identify and obtain permits required for specific treatments 2.4 Select, check and prepare tools and materials according to project brief and biosecurity requirements 2.5 Coordinate work team for regeneration works 2.6 Organise and coordinate site activities for regeneration work
3. Undertake initial assisted regeneration works	3.1 Apply biosecurity and environmentally sustainable work practices 3.2 Carry out initial assisted regeneration treatments according to project brief 3.3 Select, check and use personal protective equipment according to workplace health and safety procedures 3.4 Apply techniques for securing, protecting or supporting the recovering species 3.5 Update and maintain records and reports according to workplace procedures
4. Undertake follow-up assisted regeneration works	4.1 Record responses of desirable and undesirable biotic and abiotic site elements 4.2 Undertake remedial assisted regeneration works to secure the recovery of desirable biota 4.3 Clean, maintain and store tools and equipment

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
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Skill	Description
Reading	Interpret project briefs and other documentation and consolidate information for administering project works
Writing	Accurately record and complete organisational records and reports using standard industry terminology
Oral Communication	Interact effectively using both verbal and non-verbal communication for team work and reporting purposes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCECR310 Implement assisted regeneration works	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

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 AHCECR310 Implement assisted regeneration works

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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 performed ecological restoration works for at least two different ecological environments.

There must also be evidence that the individual has:

- identified intact ecosystem features of site, including:
 - remaining native organisms
 - intact substrates
 - habitat
- identified boundaries of natural regeneration, assisted regeneration and reconstruction zones on site
- identified assisted regeneration treatments that are appropriate to individual species typical of the ecosystem and type and intensity of the treatment matched to the degradation level of the site, which must include locally applicable treatments for the following:
 - substrate physical treatments, including surface contouring and debris laying
 - substrate chemical treatments, including removal of contaminants, pH correction, saline flushing, nutrient stripping
 - hydrological treatments, including adjusting water chemistry, increasing or reducing water availability to site
 - habitat reinstatement, including rocks, shell, artificial hollows or crevices, debris piles and dispersal perches
 - applied disturbances, including soil disturbance, clearing fire or smoke treatments
 - removal of competition, including any undesirable species
- recognised and minimised threats to regeneration at the restoration site
- conducted a site hazard identification and risk control assessment
- used, cleaned, maintained and stored machinery and equipment according to manufacturer instructions and enterprise standards

- complied with workplace health and safety, biosecurity and environmentally sustainable work practices.

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:

- identification of locally native and non-native plants and animals
- naming of ecosystems and habitats already present on site
- consideration of the effects of climate change on the prior ecosystem and implications for regeneration
- post-disturbance recovery mechanisms of specific relevant organisms and triggers for their recovery
- habitat requirements of locally native biota
- principles and methods for prevention and control of pest or undesirable biota
- common techniques used to assist regeneration for a range of native and non-native biota in damaged ecosystems, including:
 - substrate physical treatments, including surface contouring and debris laying
 - substrate chemical treatments, including removal of contaminants, pH correction, saline flushing, nutrient stripping
 - hydrological treatments, including increasing or reducing water availability
 - habitat reinstatement, including rocks, shell, artificial hollows or crevices, debris piles and dispersal perches
 - applied disturbances, including soil disturbance, clearing fire or smoke treatments
 - removal of competition, including any undesirable species
- factors affecting the timing, method of primary and secondary assisted regeneration treatments and the consequences of insufficient secondary treatments
- safety requirements when handling and using hazardous goods.

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 as specified in the Performance Evidence
- resources, equipment and materials:
 - tools and equipment required for ecological restoration works
 - materials required for treatments
 - security guards, pegs
 - workplace procedures and processes
 - safety data sheets for chemical treatments
 - workplace instructions and project brief

- relationships:
 - work team
 - supervisor
 - stakeholders.

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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