



Australian Government

AHCECR505 Plan river restoration works

Release: 1

AHCECR505 Plan river 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 prepare a detailed plan for river restoration works, in consultation with the client and relevant consent authorities.

This unit applies to individuals who work as restoration and rehabilitation project managers and who analyse information and exercise judgement to complete a range of advanced skilled activities demonstrating a deep knowledge in specific technical areas within land management. 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. Establish client need	1.1 Confirm client expectations 1.2 Determine current legislation and policies impacting site 1.3 Discuss possible strategies and confirm best option for site with client

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Develop strategy to facilitate river restoration works	2.1 Check maps and titles to determine property ownership and boundaries 2.2 Conduct a detailed site assessment 2.3 Determine profiles of river sections from pictorial images 2.4 Develop erosion and sediment control measures consistent with industry principles and selection criteria 2.5 Develop fauna habitats following industry recommendations 2.6 Ensure plants used in project comply with industry guidelines 2.7 Establish and document restoration strategies with the client and relevant consent authority
3. Prepare a detailed river restoration works plan	3.1 Check selection criteria for earthwork structures or measures against industry guidelines and legislative requirements 3.2 Check habitat enhancement strategies against industry guidelines 3.3 Prepare plan according to industry best practice and requirements for submission to consenting authorities

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 maps, images, legislation and regulations for incorporation into planning process
Writing	Prepare, proofread and edit programs, schedules and plans for river restoration works, ensuring clarity of meaning, accuracy and consistency of information
Oral communication	Establish and maintain dialogue with clients using precise and effective communications in a broad range of contexts to establish requirements for restoration works and confirm proposed strategies with client

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCECR505 Plan river restoration works	AHCNAR505 Plan river restoration works	Changed unit code to reflect new unit sector Changes to Application Minor changes to 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 AHCECR505 Plan river restoration 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, on at least one occasion, prepared a plan for restoration works of a declining river, and has:

- discussed client expectations for restoration strategies and included in plan
- planned river restoration works according to client, environmental and legislative requirements
- developed erosion and sediment control measures
- followed industry guidelines to establish fauna habitat and vegetation species
- documented strategy for submission to authorising authority
- prepare a detailed works plan.

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:

- legislation and regulations governing river system restoration, including:
 - permits
 - soil and water degradation
 - cultural and heritage sites
 - flora and fauna conservation
- river restoration, principles, techniques and processes
- potential and limits of natural regeneration of vegetation
- assisted regeneration and reconstruction approaches for revegetation
- establishment and maintenance of native vegetation to ensure establishment
- erosion and sediment control techniques and selection criteria
- planning procedure for erosion and sediment control
- erosion control and design principles and factors, including:

- soils and soil formation
- levels and levelling
- earthmoving principles
- total catchment issues
- managing peak water flows
- subsurface and surface drainage principles and systems
- river restoration works and impact on the natural environment.
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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 at a river system requiring restoration works
- resources, equipment and materials:
 - digital technology for research and development of plans and documents
- specifications:
 - workplace policies and procedures for design development and documentation
 - legislation, regulations and codes of practice for revegetation works
- relationships:
 - client.

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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