



Australian Government

AHCNAR503 Design a natural area restoration project

Release: 1

AHCNAR503 Design a natural area restoration project

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to design a natural area restoration project.

This unit applies to restoration managers who analyse information and exercise judgement to complete a range of skilled design and development activities.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Natural Area Restoration (NAR)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Develop a natural area restoration project design brief	1.1 Consult with client to establish the purpose, scope, budget and other requirements of design 1.2 Develop and confirm ecological objectives for the project 1.3 Develop the design brief and agree on extent of project 1.4 Prepare the project budget with the client 1.5 Obtain or prepare a site base plan 1.6 Review existing site data and information before visiting the site
2. Undertake a site analysis	2.1 Inspect project site at the first stage of the design work 2.2 Quantify and map on the base plan, elements and features of the

Element	Performance criteria
	site, its biological condition and the presence of threats 2.3 Record soil, topography, aspect, habitat resources, existing vegetation, ecological communities and climatic factors in the base plan and in the site report 2.4 Assess legal requirements and constraints on restoration work 2.5 Assess the potential for natural regeneration and record the limiting factors 2.6 Determine options for passive and active interventions 2.7 Assess and record other relevant information
3. Develop a concept design for the natural area restoration project	3.1 Prepare concept design to illustrate location and layout of the project 3.2 Get agreement from client on options and approaches for development in accord with the proposed ecological aims and goals 3.3 Present the concept design with supporting information and justification or reasons for the proposed actions
4. Produce a final design for the natural area restoration project	4.1 Draft a detailed plan according to the design brief and concept design 4.2 Establish the quality and standard of the works and the responsibilities of the contractor during implementation 4.3 Apply appropriate construction and engineering principles to restoration design 4.4 Organise or prepare any further design documentation according to the design brief and enterprise guidelines

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCNAR503A Design a natural area restoration project.

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCNAR503 Design a natural area restoration project

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- design a natural area restoration project according to client specifications and workplace and legislative requirements
- conduct an on site analysis to assess potential for regeneration and determine constraints, and use information to inform the design process
- establish the project purpose, scope and extent, and costs and benefits
- prepare a base plan incorporating landforms, soils, fauna and flora and habitat
- determine options for natural area restoration and incorporate into a concept design
- produce a final design with supporting documentation, including costings, planning, notes and specifications to give an interpretation of the plan to establish the quality and standards of the works and the responsibilities of the contractor during the implementation
- use professional graphic formats to present concept design

Knowledge Evidence

The candidate must demonstrate knowledge of:

- design process
- construction principles and practices
- graphical presentation and drafting techniques
- recognition of plant species and a range of ecological communities
- natural regeneration potential and limits
- ecological restoration theory and techniques
- drafting techniques
- developing and managing budgets
- calculations of materials, labour, machinery and equipment
- environmental implications of restoration works

- legislative requirements for natural area restoration works

Assessment Conditions

Assessor must satisfy current standards for RTOs.

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