



Australian Government

Assessment Requirements for AHCECR503 Design an ecological restoration project

Release: 1

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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, on at least one occasion, designed an ecological restoration project according to client brief and workplace and legislative requirements.

There must also be evidence that the individual has:

- established project scope, including:
 - purpose
 - scope
 - extent/scale
 - costs
 - benefits
 - timelines
- conducted an onsite analysis and assessment to determine ecosystem functions and processes, degradation and potential for regeneration
- determined constraints and threatening processes
- identified targets and goals for the ecosystem attributes and indicators that the targets and goals are being attained
- prepared a base plan incorporating the following:
 - landforms
 - hydrology
 - substrates
 - fauna
 - flora
 - habitat
 - presence of threats

- determined options for ecological restoration treatments and incorporated into a concept design
- negotiated the design brief and agreement on options and final design with client
- produced a final design with supporting documentation, including:
 - schedule of works
 - costings
 - planning
 - monitoring
 - annotated plans, maps, drawings or other images
 - specifications
 - quality and standards of materials and work
 - labour and contractor requirements and their responsibilities and qualifications
- used remote sensing, electronic mapping tools and professional graphic formats to present concept design.

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:

- design process
- ecosystem biota, abiotic elements, functions and processes
- ecological restoration theory, principles and standards
- adaptive management principles and practices
- natural regeneration potential and limits
- effective assisted regeneration and reconstruction principles and practices
- landscape level ecosystem processes and connectivity requirements of species
- remote sensing, electronic mapping, graphical presentation and basic drafting techniques
- recognition of species and a range of ecological communities
- biophysical components of site, including:
 - atmosphere – climatic conditions
 - hydrosphere conditions – water, rain
 - lithosphere – geology, soils
 - biosphere – flora, fauna, fungi
- costing projects and developing and managing budgets
- calculations of materials, labour, machinery and equipment
- environmental implications of restoration works
- legislative requirements for ecological restoration works
- industry and workplace standards.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated on an ecological site requiring restoration or in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computers 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
 - stakeholders.

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>