



Australian Government

Assessment Requirements for AHCSAW503 Plan conservation earthworks

Release: 2

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Modification History

Release	Comments
Release 2	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 produced at least one plan of conservation earthworks that conforms with the following:

- meets client needs
- conforms to industry standards
- complies with legislation and policy requirements.

There must also be evidence that the individual has:

- consulted and negotiated with client for needs, agreements and approvals
- investigated site using:
 - surveys
 - aerial photographs
 - maps
- explained to landholder the impact of legislation and policies on project
- developed a strategy to protect natural areas and utilise earthworks according to industry principles and regulatory requirements
- prepared detailed project costing according to client budget
- prepared detailed works plans and communicated design requirements to designer.

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:

- environmental, planning, groundwater, heritage and cultural legislation, and the impact on development sites and conservation earthworks planning
- environmental, planning and earthwork construction standards and codes of practice relevant to planning conservation earthworks projects

- earthwork structures used for managing the movement of water
- principles of erosion control and design for conservation earthworks
- ecology protection and principles of rehabilitation on conservation sites
- soils and soil formation and the properties of soils for earthworks and erosion control
- determining levels and levelling on sites
- accessing plans and checking titles
- principles of earthmoving to manage water flow, and the equipment used to achieve it
- total catchment issues related to erosion and land degradation
- land use practices that contribute to erosion, and land development strategies to help mitigate erosion
- earthworks and erosion control and their potential impact on environment
- estimating and calculating peak water flows and methods to manage peak flows
- sub-surface and surface water interactions and the drainage principles and systems used in design
- simulation systems and techniques for demonstrating design outcomes and their limitations.

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 a landholder site or in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - digital technology with planning and design tools and resources
- specifications:
 - workplace policies, procedures and processes for planning and design
 - site land use, maps, plans and titles
 - legislation, regulations and industry codes of practice for addressing land degradation
- relationships:
 - landholder.

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>