



Australian Government

AHCSAW505 Plan erosion and sediment control measures

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.

Application

This unit of competency describes the skills and knowledge required to develop erosion and sediment control plans.

The unit applies to individuals who work in soil and water conservation and who analyse information and exercise judgement to complete plans and designs for erosion and sediment control. They have accountability for the work of others and analyse, design and communicate solutions to complex problems.

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

Pre-requisite Unit

Nil

Unit Sector

Soil and Water Conservation (SAW)

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 suitability of development proposal	1.1 Access and analyse development proposal for site 1.2 Investigate development site and compile data on suitability for development 1.3 Consider changes to development proposal, and report to developer or consenting authority 1.4 Verify development proposal complies with regulatory planning

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	authority and environmental, heritage and cultural legislation 1.5 Confirm development proposal meets erosion and sediment control guidelines
2. Develop erosion and sediment control strategy	2.1 Develop erosion control measures for site 2.2 Develop sediment control measures for site 2.3 Apply workplace health and safety and environmentally sustainable practices to strategy 2.4 Establish erosion and sediment control strategies 2.5 Document strategies in cooperation with developer and consenting authority
3. Prepare an erosion and sediment control plan	3.1 Check earthwork structures or measures comply with selection criteria and industry guidelines 3.2 Develop erosion and sediment control plan for site 3.3 Design structures and specifications for erosion and sediment control 3.4 Compile plans, specifications and documentation into final plan, and verify compliance with industry guidelines

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, evaluate and analyse ideas and information from site development documents, and compare with legislation, regulations and other compliance documents to verify the suitability and compliance of development for site
Writing	- Demonstrate sophisticated writing skills by selecting appropriate conventions and stylistic devices to express precise meaning in plans and strategies - Prepare documentation and specifications for plans and designs, expressing ideas, exploring complex design issues and

Skill	Description
	constructing the documents accurately and succinctly to industry standards
Numeracy	Interpret complex design ideas and perform calculations with precision and accuracy for inclusion in erosion and sediment control structures

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCSAW505 Plan erosion and sediment control measures	AHCSAW502 Plan erosion and sediment control measures	Minor changes to Application Minor changes and splitting of Performance Criteria for clarity Updated Foundation Skills Updated Performance Evidence, Knowledge Evidence and Assessment Conditions	Not 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 AHCSAW505 Plan erosion and sediment control measures

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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 developed at least one plan for erosion and sediment control measures according to regulatory requirements and industry standards.

There must also be evidence that the individual has:

- established suitability of development proposal to location and environment
- prepared erosion and sediment control plans to enterprise standards
- developed erosion and sediment control measures consistent with industry principles and selection criteria
- prepared an erosion and sediment control plan according to industry standards and in compliance with regulatory planning authority.

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:

- application of relevant environmental, planning, groundwater and heritage and cultural legislation in erosion and sediment control work
- planning process for erosion and sediment control
- surface water and groundwater interactions and their influence on erosion, erosion control and design, including:
 - soils and soil formation and impact on water flow
 - levels and levelling
 - earthmoving principles
 - total catchment issues
 - managing peak water flows
 - sub-surface and surface drainage principles and systems
- computations relevant to water runoff, flow and design of erosion control

- structures and structural design principles of erosion and sediment control
- permits or approvals required for developing erosion and sediment control structures
- environmental issues related to erosion and sediment
- awareness of the limitations of design aids provided for industry
- workplace health and safety implications of implementing plans.

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 development site requiring sediment and erosion control, 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 development proposals
 - legislation, regulations and industry codes of practice for controlling land degradation sediment
- relationships:
 - developer
 - consenting authority.

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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