



Australian Government

AHCSOL506 Manage erosion and sediment control

Release: 1

AHCSOL506 Manage erosion and sediment control

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 identify areas with erosion and sediment problems, and develop, implement, manage and evaluate an erosion and sediment control plan.

The unit applies to individuals who apply specialist skills and knowledge to the management of erosion and sediment control, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work must be carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.

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

Pre-requisite Unit

Nil

Unit Sector

Soils and Media (SOL)

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. Conduct an audit and identify areas with erosion and sediment	1.1 Identify soils susceptible to erosion and sediment loss and relationship to land classes for erosion potential 1.2 Conduct a property or site audit and document details using

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
problems	appropriate methodology 1.3 Identify and classify types of erosion and sediment loss 1.4 Identify environmental and manmade factors that influence rates and effects of erosion and sediment 1.5 Estimate the economic and environmental losses caused by erosion and sediment losses 1.6 Identify appropriate external sources of support to assist in the planning processes 1.7 Identify regulatory planning authorities and environmental legislation relevant to current and future project planning
2. Develop erosion and sediment control plan	2.1 Investigate erosion and sediment control measures consistent with industry guidelines 2.2 Develop and record erosion and sediment control strategies for project area in cooperation with landowner, relevant government and planning authorities, and stakeholders 2.3 Identify contingency procedures for potential problems that may require future rectifications 2.4 Develop erosion and sediment control plan to meet design principles including environmental concerns, physical impacts, land use, production systems and personnel 2.5 Develop monitoring processes for evaluating and reporting performance against erosion and sediment control plan for achieving short-term and long-term outcomes 2.6 Determine and communicate roles and responsibilities of personnel and stakeholders 2.7 Document erosion and sediment control plan
3. Implement and manage the erosion and sediment control plan	3.1 Implement tasks according to erosion and sediment control plan and design principles 3.2 Assess the workplace health and safety risks and environmental impacts associated with control plan activities, and implement suitable controls 3.3 Manage the communication process, including strategies for conflict resolution and problem solving 3.4 Monitor progress to ensure time, performance, cost and quality of work are achieved

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.5 Investigate and negotiate proposed variations to plan with key stakeholders
4. Evaluate the erosion and sediment control plan	4.1 Conduct inspection to review work completion and collate monitoring data 4.2 Identify alterations or modifications to the plan, and report to key stakeholders, developer or consent authority 4.3 Review outcomes of completed erosion and sediment control plan against agreed short-term and long-term objectives and report to key stakeholders

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	Interpret textual information from a range of sources to identify relevant and key information on regulatory planning authorities and environmental legislation relevant to current and future project planning
Oral communication	- Initiate discussions with landowner, relevant government and planning authorities, and stakeholders using clear language to discuss erosion and sediment control strategies - Use clear communications with personnel and key stakeholders to confirm their roles and responsibilities, and with developer or consent authority to discuss and report alterations or modifications to the plan and review outcomes of completed plan

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCSOL506 Manage erosion and	AHCSOL503 Manage erosion and	Minor changes to	Not equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
sediment control	sediment control	application Major changes to performance criteria Foundation skills added Assessment requirements updated	

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 AHCSOL506 Manage erosion and sediment control

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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 managed erosion and sediment control on at least one occasion, and has:

- applied environmental and biosecurity practices and workplace procedures applicable to managing erosion and sediment control
- identified appropriate erosion and sediment control strategy methods
- developed and documented erosion and sediment control plan
- communicated and collaborated effectively with stakeholders for planning and conflict resolution
- prepared plans and reports on erosion and sediment control plans
- monitored, evaluated and analysed effectiveness of erosion and sediment control plan outcomes
- organised required resources and key stakeholders
- applied workplace health and safety requirements applicable to managing erosion and sediment control.

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:

- principles and practices of erosion and sediment control management, including:
 - environment and sustainability as a whole farm system approach
 - environmental issues with regard to water catchment, ecosystems, habitats and waste minimisation
 - erosion control and design principles
 - planning processes for erosion and sediment control
 - project and risk management techniques and tools for the management of erosion and sediment control

- soils and soil formation
- earthmoving principles and practices
- subsurface and surface drainage principles and systems
- environmental and biosecurity practices and workplace procedures applicable to managing erosion and sediment control, including licences and permits to implement erosion and sediment control activities
- workplace health and safety requirements applicable to managing erosion and sediment control.

Assessment Conditions

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

- physical conditions:
 - a workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - regulatory planning authority and environmental legislation relevant to erosion and sediment control planning
 - principles and practices of erosion and sediment control management
- specifications:
 - workplace health and safety requirements applicable to managing erosion and sediment control
 - environmental and biosecurity practices and workplace procedures applicable to managing erosion and sediment control
- relationships:
 - landowner, personnel, stakeholders, developer, relevant government and planning authorities, and consent authority
- timeframes:
 - according to job requirements.

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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