



Australian Government

Department of Education, Employment and Workplace Relations

AHCSAW502A Plan erosion and sediment control measures

Release: 1

AHCSAW502A Plan erosion and sediment control measures

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the development of erosion and sediment control plans and defines the standard required to: establish suitability of development proposal; prepare reports on erosion and sediment control plans; check selection criteria for earthwork structures or measures against industry guidelines; develop erosion and sediment control strategy; prepare an erosion and sediment control plan.
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Application of the Unit

Application of the unit	This unit applies to land managers in land disturbing projects for local government, urban, civil construction, forestry, extractive industry, rural, or natural resource management.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
1. Establish suitability of development proposal	1.1.Data concerning suitability of development site is compiled using industry methodology. 1.2.Alterations or modifications to the development plan are noted and reported to developer or consent authority. 1.3.Compliance is established with relevant regulatory planning authority or environmental legislation following industry procedures. 1.4.Concurrence is established relating to suitability of development proposal and conforms to erosion and sediment control guidelines.
2. Develop erosion and sediment control strategy	2.1.Erosion control measures are developed consistent with industry principles and selection criteria. 2.2.Sediment control measures are developed consistent with industry principles and selection criteria. 2.3.Erosion and sediment control strategies are established and documented in co-operation with the developer and relevant consent authority.
3. Prepare an erosion and sediment control plan	3.1.Selection criteria for earthwork structures or measures are checked against industry guidelines. 3.2.Design specifications for structures incorporated in plan details. 3.3.Erosion and sediment control plan and documentation supporting the plan follow industry guidelines.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- establish suitability of development proposal
- prepare reports on erosion and sediment control plans
- develop erosion and sediment control strategy
- prepare an erosion and sediment control plan
- use literacy skills to fulfil job roles as required by the organisation. The level of skill may range from reading and understanding documentation to completion of

REQUIRED SKILLS AND KNOWLEDGE

written reports

- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record complex workplace measures
- use interpersonal skills to work with others and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge

- relevant environmental, planning and groundwater legislation
- planning process for erosion and sediment control
- erosion control and design principles
- soils and soil formation
- levels and levelling
- earthmoving principles
- total catchment issues
- legal requirements - permits
- environmental issues
- country code
- managing peak water flows
- subsurface and surface drainage principles and systems
- awareness of the limitations of design aids provided for industry.

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following:

- establish suitability of development proposal
- prepare reports on erosion and sediment control plans
- check selection criteria for earthwork structures or measures against industry guidelines
- develop erosion and sediment control strategy
- prepare an erosion and sediment control plan.

Context of and specific resources for assessment

Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole.

Earthworks may include:

- the range of conservation earthworks on rural lands including:
 - contour banks
 - waterways
 - dams
 - drainage structures.

Erosion control measures may include:

- site management
- land shaping
- batter stabilisation
- banks and channels

RANGE STATEMENT	
	• level spreader • revegetation • waterways • check dams • bank and channel linings • grade stabilising structures • outlet protection structures • stormwater detention measures • dust control • rural road&track crossbank and crossfall.
Sediment control measures may include:	• sediment basins • sediment traps • sediment filters • excavated sediment traps • straw bale • stormwater inlet sediment traps • sediment fence • straw bale • geotextile fabric • vegetation strips.

Unit Sector(s)

Unit sector	Soil and water conservation
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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