



Australian Government

Department of Education, Employment and Workplace Relations

AHCSAW401A Set out conservation earthworks

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers setting out conservation earthworks and defines the standard required to: interpret the plan in consultation with landholder and surveyor; identify and mark out on the site the key plan points and any additional features identified on the site plan; measure and peg out the site from the earthworks specification and plan.
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Application of the Unit

Application of the unit	This unit applies to soil conservation officers who set out low engineering standard structures using specialised pegging/marketing techniques on rural lands.
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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

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1. Interpret plans and specifications	1.1. Overall plan is determined in consultation with landholder and surveyor. 1.2. Earthworks specifications are established in consideration of desired outcome and prevailing conditions. 1.3. Plan is accurately verified in line with job requirements.
2. Relate plan to site	2.1. Key plan points are located on site. 2.2. Additional features identified on site plan. 2.3. Site issues which affect survey and pegging are identified and recorded.
3. Peg project	3.1. Pegging sequence is established in consultation with the site surveyor. 3.2. Site dimensions are measured in compliance with job specification. 3.3. Peg locations are established using prescribed methods. 3.4. Earthworks are pegged in line with project specification. 3.5. All construction personnel are advised of pegging and the need for site integrity.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- identify hazards and ensure the safety of field operations on sites
- interpret plans and specifications
- relate plan to site
- peg project
- protect site
- use literacy skills to read, interpret and follow organisational policies and procedures, develop sequenced written instructions, record accurately and legibly information collected and select and apply procedures to a range of tasks
- use oral communication skills/language competence to fulfil the job role as specified by the organisation including questioning, active listening, asking for

REQUIRED SKILLS AND KNOWLEDGE

- clarification, negotiating solutions and responding to a range of views
- use numeracy skills to estimate, calculate and record routine and more complex workplace measures and data
- 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

- different types of survey equipment and staffs
- civil engineering and survey techniques
- erosion control and design principles
- principles of native topsoil conservation and protection
- levels and levelling
- earthmoving principles
- interpretation of plans and general and technical specifications
- Occupational Health and Safety (OHS) and environmental legislation, codes of practice and enterprise procedures.

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:

- interpret the plan in consultation with landholder and surveyor
- identify and mark out on the site the key plan points and any additional features identified on the site plan
- measure and peg out the site from the earthworks specification and 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.

Types of earthworks may include:

- farm dams
- erosion control banks
- waterways
- access tracks
- sediment traps
- detention basins
- flumes.

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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