



Australian Government

AHCSAW402 Set out conservation earthworks

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 set out standard structures using specialised pegging and marking techniques, for erosion and sediment control earthworks.

The unit applies to individuals who take responsibility for their own work and use discretion and judgement in the selection, allocation and use of available resources. This includes undertaking a range of routine and non-routine activities and work in known and changing contexts.

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. Interpret plans and specifications	1.1 Determine overall objective of construction work from plans and in consultation with landholder and surveyor 1.2 Establish earthworks specifications required to achieve desired objectives 1.3 Inspect site for prevailing conditions and identify inconsistency with plan

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Consult surveyor to rectify inconsistencies 1.5 Verify plan according to workplace procedures 1.6 Identify hazards, assess risks and implement controls according to workplace health and safety procedures
2. Relate plan to site	2.1 Harmonise key data points on plan with matching features on site 2.2 Identify features on site plan to be used for survey work 2.3 Identify and record inconsistencies between site plan and actual site that will affect survey activity
3. Peg project	3.1 Establish layout sequence in consultation with site surveyor 3.2 Measure site dimensions according to plan and specification 3.3 Relay site dimensions from plan to site 3.4 Mark out site construction area and locations using workplace and industry best practice 3.5 Lay out earthworks according to project specifications and specified tolerances 3.6 Advise construction team of layout to preserve site layout integrity

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	Critically analyse plans and specifications to extract critical data for survey works
Numeracy	Select and apply mathematical and problem solving strategies to interpret plans and specifications and transfer linear dimensional information from scale drawings into real-world site layout

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCSAW402 Set out conservation earthworks	AHCSAW401 Set out conservation earthworks	Changes to Application and Performance Criteria for clarity Updated Foundation Skills, 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 AHCSAW402 Set out conservation earthworks

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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 interpreted plans and specifications and transferred dimensions to at least one conservation earthworks site.

There must also be evidence that the individual has:

- set out conservation earthworks site using industry and workplace practices
- identified hazards, assessed risks and implemented controls for the survey site
- interpreted plans and specifications and related plan to site for layout
- transferred measurements from plan to site to specified accuracy
- marked out site according to workplace and industry practices
- informed work team of layout and to preserve the integrity.

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:

- plans and plan reading and interpretation, including:
 - types of plans
 - general and technical specifications
 - scale and calculating dimensions
 - supplementary plan documentation
 - version control
- survey equipment and its use for setting out earthworks, including:
 - equipment used for linear dimensions
 - determining levels and heights
 - setting up, operation and maintenance of equipment for preserving accuracy
- civil engineering and survey techniques applicable to conservation earthworks, including:

- industry operating procedures
- methods and materials used for marking out sites
- workplace health and safety issues relating to site safety while undertaking site survey works, including:
 - safe use of laser equipment
 - site-specific risks and impediments
 - personal protective equipment
 - sun protection.

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 conservation construction site or in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - surveying tools and equipment for transferring measurements
 - consumables for marking out site
 - personal protective equipment
- specifications:
 - workplace policies and procedures for safely conducting survey work
 - manufacturer operating instructions for survey equipment
 - workplace instructions, plans and specifications
- relationships:
 - landholder
 - surveyor.

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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