



Australian Government

AHCSAW301 Construct conservation earthworks

Release: 1

AHCSAW301 Construct conservation earthworks

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to use specialised earthmoving techniques to achieve fine tolerances in the construction of conservation earthworks.

Construction is often carried out using a single earthmoving machine in varied conditions and terrains that requires the plant operator to develop skills that are unique to this sector.

This unit applies to individuals who work under broad direction and take responsibility for their own work including limited responsibility for the work of others.

Special vehicle licenses may apply to this unit, dependent on the type of machinery being used. Specific determination should be sought through the relevant State or Territory.

Pre-requisite Unit

Nil.

Unit Sector

Soil and Water Conservation (SAW)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for construction	1.1 Confirm construction details and sequence 1.2 Identify and locate worksite, site indicators and survey pegs according to maps and plans of the site 1.3 Confirm work readiness of machinery and equipment 1.4 Assess and minimise risks to others and the environment 1.5 Select and use appropriate personal protective equipment

Element	Performance criteria
	1.6 Verify that equipment and attachments match terrain and program tasks
2. Carry out conservation earthworks construction work	2.1 Follow industry endorsed earthwork methods and patterns for specific machines 2.2 Monitor and maintain optimum machinery loads in accordance with prevailing conditions 2.3 Ensure that safe machinery operating techniques are deployed to match terrain, site conditions other operators and workers 2.4 Ensure that excavation, transport, dumping and compaction of material is conducted appropriately and according to enterprise, client and legislative requirements 2.5 Carry out work in accordance with work health and safety policies and procedures
3. Apply finishing techniques	3.1 Finish batters and surfaces 3.2 Retain site features and vegetation 3.3 Clear site and remove debris 3.4 Complete topsoiling of disturbed areas and surfaces
4. Finalise work	4.1 Complete work records 4.2 Clean, store and maintain machinery, tools and equipment

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCSAW301A Construct conservation earthworks

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCSAW301 Construct conservation earthworks

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- identify hazards and implement safe operating procedures
- prepare for construction according to construction plans and enterprise requirements
- carry out planned earthworks, minimising damage to natural areas
- apply finishing techniques
- read maps and plans to identify and peg out construction sites
- identify work site, site indicators and survey pegs
- determine soil properties and types
- use specialist earthmoving equipment relevant to the task
- follow work health and safety policies and procedures in the context of own work

Knowledge Evidence

The candidate must demonstrate knowledge of:

- erosion and sediment control standards
- soils and soil formation
- principles of conservation earthwork construction and erosion and sediment control including:
 - catchment management and soils
 - earthmoving principles
 - levels and levelling
 - natural area protection (including topsoil) and rehabilitation
 - design
 - natural area protection (particularly topsoil) and rehabilitation principles
- types and application of personal protective equipment

- application of legislation and regulations relating to own role in conservation earthwork construction
- enterprise work health and safety procedures
- risk factors including human health and environmental damage
- environmental impacts and controls for constructing conservation earthworks

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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