



Australian Government

AHCLSC317 Construct landscape features using concrete

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 7.0.

Application

This unit of competency describes the skills and knowledge required to construct concrete structures and features as a component of landscape project works, including preparing for work, setting out and preparing site, mixing pouring and finishing concrete, checking and cleaning up site.

The unit applies to individuals who construct landscape features using concrete under broad direction, and take responsibility for their own work and for the quality of the work of others.

State/territory licensing, legislative or certification requirements apply in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Pre-requisite Unit

Nil

Unit Sector

Landscape (LSC)

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. Plan and prepare work	1.1 Interpret site plans and specifications 1.2 Identify potential hazards and risks, and implement safe working practices to manage risks 1.3 Check quantity and quality of materials 1.4 Select tools, equipment and machinery required for construction work and check for safe operation

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task 1.6 Identify and minimise environmental impacts of proposed concrete works
2. Set out and prepare the site	2.1 Determine, locate and mark out services from site plan 2.2 Mark out position of structure or feature according to site plan 2.3 Establish profiles to conform to nominated tolerances 2.4 Excavate site according to site plan 2.5 Prepare subsoil by removing all debris, vegetable matter and topsoil to provide a solid foundation for concrete 2.6 Install drainage systems according to plans and specifications 2.7 Install form work on site in a manner that will ensure it remains rigid during concrete pouring operations and allow for ease of dismantling without damage to concrete 2.8 Place and compact sub-base material to required finished levels 2.9 Complete preparation of site according to type of structure or feature to be constructed 2.10 Place expansion joints and reinforcement steel according to site plan and specifications
3. Mix and pour concrete	3.1 Determine proportions for concrete mix according to strength requirements of project 3.2 Determine volume of dry materials necessary to produce final concrete mix 3.3 Mix together all dry ingredients and required additives to ensure a thorough blending of all materials is achieved 3.4 Introduce sufficient water to produce a concrete mix to required consistency 3.5 Perform concrete slump test 3.6 Pour concrete to designated levels in a manner to avoid segregation of materials 3.7 Consolidate concrete using an approved vibration method
4. Finish concrete	4.1 Screed concrete to desired finished level 4.2 Apply appropriate trowelling techniques

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.3 Finish concrete off according to site plan and specifications 4.4 Install control joints according to site plan and specifications
5. Check quality of work and clean-up site	5.1 Inspect quality of finished works to ensure required standard has been achieved 5.2 Remove and clean form work to allow reuse 5.3 Ensure all clean-up works minimise impact to environment 5.4 Clean, maintain and store tools and equipment 5.5 Identify and report unserviceable tools and equipment according to workplace procedures

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
Oral communication	Use clear language and standard industry terminology to report tool and equipment unserviceability
Numeracy	- Calculate quantities of material, take measurements, read and use scale rulers - Calculate concrete mix proportions - Set out geometric shapes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLSC317 construct landscape features using concrete	AHCLSC302 construct landscape features using concrete	Minor changes to application Minor changes to performance criteria	Equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
		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>