



Australian Government

AHCLSC302 Construct landscape features using concrete

Release: 1

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Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to construct concrete structures and features as a component of landscape project works.

This unit applies to individuals who take responsibility for own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources. All work is carried out to comply with workplace procedures.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Landscape (LSC)

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. Plan and prepare work	1.1 Interpret plans and specifications 1.2 Check the quantity and quality of materials 1.3 Select tools and equipment and check for serviceability 1.4 Identify hazards, assess risks and implement controls 1.5 Select and use personal protective equipment (PPE) 1.6 Identify and ameliorate environmental impacts of proposed concrete works
2. Set out and prepare the	2.1 Determine and locate services

Element	Performance criteria
site	2.2 Mark out the position of the structure or feature according to plans 2.3 Establish profiles to conform to the nominated tolerances 2.4 Prepare subsoil by removing all debris, vegetable matter and topsoil to provide a solid foundation for concrete 2.5 Install drainage systems according to plans and specifications 2.6 Install form work to the site in a manner that will ensure it remains rigid during concrete pouring operations 2.7 Place and compact sub-base material to the required finished levels 2.8 Complete preparation of the site according to the type of structure or feature to be constructed 2.9 Place reinforcement as designated in plans and specifications
3. Mix and pour concrete	3.1 Determine proportions for concrete mix according to the strength requirements of the project 3.2 Determine the 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 the required consistency 3.5 Pour concrete to designated levels in a manner to avoid segregation of materials 3.6 Consolidate concrete using an approved vibration method
4. Finish concrete	4.1 Screed concrete to the desired finished level 4.2 Trowel surface to desired finish 4.3 Finish concrete off according to plans and specifications
5. Check quality of work and clean-up site	5.1 Inspect the quality of finished works to ensure the 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 the environment 5.4 Clean, maintain and store 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 AHCLSC302A Construct landscape features using concrete.

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 AHCLSC302 Construct landscape features using concrete

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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:

- interpret site plans and specifications
- set out and prepare a site for concrete
- measure and construct profiles
- establish levels using levelling equipment
- place reinforcement
- pour, consolidate and finish concrete

Knowledge Evidence

The candidate must demonstrate knowledge of:

- the principles and practices of constructing concrete landscape features
- industry standards in relation to reinforcing and consolidating concrete
- MPA testing theory and what affects MPA specifications in a concrete mix
- sub-base and sub-grade materials and preparation
- the comparative environmental implications associated with soil removal and the placement of concrete

Assessment Conditions

Assessors must satisfy current standards for RTOs.

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