

Modification history

Release	Comments
<u>Release 2</u>	<u>This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 7.0.</u>
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

AHCLSC302	Construct landscape features using concrete
Application	<p>This unit of competency describes the skills and knowledge required to construct concrete structures and features as a component of landscape project works, <u>including preparing for work, setting out and preparing site, mixing pouring and finishing concrete, checking and cleaning up site.</u></p> <p>This unit applies to individuals who <u>construct landscape features using concrete under broad direction, and</u> take responsibility for <u>their</u> 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.</p> <p>No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Landscape (LSC)

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 <u>site</u> plans and specifications 1.2 <u>Identify potential hazards and risks, and implement safe working practices to manage risks</u> Check the quantity and quality of materials 1.3 <u>Check the quantity and quality of materials</u> Select tools and equipment and check for serviceability 1.4 <u>Select tools and equipment required for construction work and check for safe operation</u> Identify hazards, assess risks and implement controls 1.5 Select, <u>fit, and</u> use <u>and maintain</u> personal protective equipment (PPE) <u>applicable to the task</u> 1.6 Identify and ameliorate environmental impacts of proposed concrete works
2. Set out and prepare the site	2.1 Determine, and locate <u>and mark out</u> services <u>from site plan</u> 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 <u>onto the</u> 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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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 5.5 <u>Identify and report unserviceable tools and equipment according to workplace procedures</u>

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	<ul style="list-style-type: none"> Use clear language to report tool and equipment unserviceability

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLSC302 construct landscape features using concrete Release 2	AHCLSC302 construct landscape features using concrete Release 1	Minor changes to application Minor changes to performance criteria Foundation skills added Assessment requirements updated	Equivalent

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72
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TITLE	Assessment requirements for AHCLSC302 Construct landscape features using concrete
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has <u>constructed landscape features using concrete on at least two occasions and has:</u></p> <ul style="list-style-type: none"> • <u>applied workplace health and safety requirements</u> • <u>selected, used and maintained tools and equipment required for constructing landscape features using concrete</u> • interpreted site plans and specifications • set out and prepared a site for concrete • measured and constructed profiles • established levels using levelling equipment • placed reinforcement • poured, consolidated and finished concrete • checked quality of work and cleaned up site • reported unserviceable tools and equipment. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • <u>workplace requirements applicable to health and safety in the workplace for constructing landscape features using concrete, including appropriate use of personal protective equipment (PPE)</u> • the principles and practices of constructing concrete landscape features, <u>including:</u> <ul style="list-style-type: none"> • 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	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • a workplace setting or an environment that accurately represent workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • <u>workplace procedures applicable to constructing landscape features using concrete</u> • <u>materials</u>, tools and equipment applicable to <u>constructing landscape features using concrete</u> • <u>PPE</u> applicable to <u>constructing landscape features using concrete</u> • specifications: <ul style="list-style-type: none"> • workplace requirements applicable to health and safety in the workplace for <u>constructing landscape features using concrete</u> • site plans and specifications applicable to <u>constructing landscape features using concrete</u> • timeframes: <ul style="list-style-type: none"> • according to job requirements. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72