



Australian Government

AHCLSC312 Construct brick and block structures and features

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 brick structures and features or block structures and features, or both as a component of landscape project works, including preparing for work, setting out and preparing site, constructing structure or feature, checking and cleaning up site.

The unit applies to individuals who construct brick and block structures and features 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

AHCLSC317 Construct landscape features using concrete

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 the quantity and quality of materials 1.4 Select tools, equipment and machinery required for construction

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	work and check for safe operation 1.5 Select, fit, use and maintain personal protective equipment (PPE) applicable to the task 1.6 Implement suitable control strategies for environmental problems relating to brick and block construction work
2. Set out and prepare the site	2.1 Determine, locate and mark out services from site plan where applicable 2.2 Mark out position of structure or feature according to site plans 2.3 Establish profiles to conform to nominated tolerances
3. Construct structure or feature	3.1 Mix mortar to determined ratio and add bonding, colouring agents and other appropriate admixes if required in accordance with specifications 3.2 Lay damp proofing if required 3.3 Establish base course of brick or block work to achieve final level heights 3.4 Lay courses of brick or block work using designated bonds in a manner that will ensure viability and stability of structure 3.5 Cut bricks or blocks using mechanical and hand cut method 3.6 Apply finishes to brick or block work 3.7 Apply waterproofing according to site plans and specifications 3.8 Install drainage systems according to site plans and specifications
4. Check quality of work and clean-up site	4.1 Inspect quality of finished works to ensure standard of finished structure or feature has been achieved 4.2 Clean down brick or block work surfaces in an environmentally safe and sensitive manner 4.3 Clean, maintain and store tools and equipment 4.4 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 industry standard terminology to report tool and equipment unserviceability
Numeracy	- Calculate quantities of material, take measurements, read and use tape measures and scale rulers - Set out right angles using 3:4:5 method

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLSC312 Construct brick and block structures and features	AHCLSC303 Construct brick and block structures and features	Minor changes to application Added prerequisite unit Minor changes to performance criteria Foundation skills added Assessment requirements updated	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 AHCLSC312 Construct brick and block structures and features

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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 constructed brick and block structures and features, using two different construction methods and has:

- interpreted site plans and specifications
- applied workplace health and safety requirements, including fitted and used personal protective equipment (PPE)
- selected, used and maintained tools and equipment required for constructing brick and block structures and features
- setup profiles for brick and block structures and features
- measured and constructed profiles using mathematical techniques
- established levels using levelling equipment
- gauged brickworks to maintain correct spacing
- applied bonding techniques
- cut bricks or blocks
- applied joint treatment
- checked quality of work and cleaned up site
- cleaned brick or block
- reported unserviceable tools and equipment.

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:

- principles and practices of brick and block construction, including:
 - components of mortar, including bonding and colouring agents and ratios, and their importance
 - site plans and specifications

- structural integrity of brick and block structures and features
- Australian standards and codes relevant to constructing brick and block structures and features
- local and State/Territory regulations and legislation applicable to constructing brick and block structures and features
- types of bricks and blocks and their dimensions, tolerances and applications
- types of brick and block structures and features, including single, double and cavity filled walls
- types of brick and block patterns, joint finishing, frogs and holes, and their purpose
- brick and block mechanical and hand cut methods
- types of drainage applicable to brick and block structures and features
- types of waterproofing
- purpose of damp courses
- types of jointing applicable to brick and block structures and features
- types of concrete footings, reinforcement and core filling applicable to brick and block structures and features
- post-construction finishes and applications
- environmental impacts of bricks and block construction works
- workplace requirements applicable to health and safety in the workplace for constructing brick and block structures and features, including appropriate use of PPE.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
- a workplace setting or an environment that accurately represent workplace conditions
- resources, equipment and materials:
 - workplace procedures applicable to constructing brick and block structures and features
 - materials, tools and equipment applicable to constructing brick and block structures and features
 - PPE applicable to constructing brick and block structures and features
- specifications:
 - workplace requirements applicable to health and safety in the workplace for constructing brick and block structures and features
 - site plans and specifications applicable to constructing brick and block structures and features
 - local and State/Territory regulations and legislation applicable to constructing brick and block structures and features
 - Australian standards and codes applicable to constructing brick and block structures and features

- timeframes:
 - according to job requirements.

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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