

Title	Demonstrate knowledge of concrete masonry and paving construction		
Level	3	Credits	2

Purpose	<p>People credited with this standard can demonstrate knowledge of:</p> <ul style="list-style-type: none"> • constructing concrete masonry structures; • paving construction; and • health and safety for concrete masonry and paving construction.
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

1 Range

Evidence generated for assessment against this standard must reflect workplace and industry requirements specified in:

- documented worksite specifications, procedures, and practices;
- manufacturer recommendations, specifications, and technical data sheets;
- applicable specifications from other sources such as an architect, designer, engineer, or supervisor;
- applicable material safety data sheets;
- NZS 4230:2004 *Design of reinforced concrete masonry structures*;
- the New Zealand Building Code.

Evidence generated for assessment against this standard must reflect the requirements of:

- Building Act 2004
- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Building Regulations 1992
- Building (Forms) Regulations 2004
- Health and Safety in Employment Regulations 1995.

2 Reference

NZS 4230:2004 *Design of reinforced concrete masonry structures*. Available from Standards NZ (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of constructing concrete masonry structures.

Performance criteria

- 1.1 Describe the features and uses of concrete masonry structures.
- Range pointed, flush, stack bond, stretcher bond, size, finish.
- 1.2 Describe requirements for setting out and constructing concrete masonry structures to a specific design.
- Range foundations, position, plumb, level, height.
- 1.3 Calculate materials required to construct a concrete masonry structure to a specific design.
- Range blocks, reinforcing.

Outcome 2

Demonstrate knowledge of paving construction.

Range concrete, pavers.

Performance criteria

- 2.1 Describe the features and recommended uses of paving types.
- 2.2 Describe requirements for the setting out and construction of paved areas to a specific design.
- Range excavation, substrate, position, levels, drainage.
- 2.3 Calculate materials required to construct a paved area to a specific design.
- 2.4 Describe how to store materials and equipment required for paving construction.

Outcome 3

Demonstrate knowledge of health and safety for concrete masonry and paving construction.

Range labour, identification of hazards and controls, plant;
 plant includes – any machinery, vehicle, vessel, aircraft, equipment (including personal protective equipment), appliance, container, implement, or tool; any component of any of those things; anything fitted or connected to any of those things;
 personal protective equipment includes – anything used or worn by a person (including clothing) to minimise risks to the person’s health and safety; air supplied respiratory equipment.

Performance criteria

3.1 Identify and describe health and safety requirements for concrete masonry and paving construction.

Replacement information	This unit standard replaced unit standard 13027.
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Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2008	31 December 2023
Review	2	30 September 2021	N/A

Consent and Moderation Requirements (CMR) reference	0048
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation at national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.