

Title	Construct multi-centred and gauged brick arches		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: set up bricklaying work area; build multi-centred and gauged brick arches; complete work operations.
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Classification	Masonry > Brick and Block Laying
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Available grade	Achieved
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Guidance Information

- 1 This unit standard must be assessed against on the basis of evidence of demonstrated performance in the workplace and/or situations that reflect the workplace environment.
- 2 Definitions

Buttered refers to putting mortar on the end of the brick where it butts up against the previous brick.

Industry practice refers to the expected standard required at the location in which credit for this standard is sought; such standards may be set down in: industry codes of practice, enterprise procedures, which refer to documented procedures specific to the enterprise which set out the standard business practice, and activities of that enterprise.

Site safety plan refers to the documented safety plan which is required by law to ensure compliance with the Health and Safety in Employment Act, 1992.

Specifications refer to any, or all of the following:
 manufacturer's specifications and/or recommendations;
 site and/or workplace specific requirements.

Plant refers to appliances, equipment, fittings, furniture, implements, machines, machinery, tools, vehicles, plus parts, controls, and anything connected to such plant.
- 3 New Zealand Standards and legislation relevant to this unit standard include the following:
 NZS 4210:2001, *Masonry Construction: Materials and Workmanship*;
 NZS 3604:1999, *Timber Framed Buildings*;
 Health and Safety in Employment Act, 1992;
 Resource Management Act, 1991.
- 4 To demonstrate competence, minimum span of brick arch should be 800mm.

Outcomes and performance criteria

Outcome 1

Set up bricklaying work area.

Performance criteria

- 1.1 Area where wall is to be erected is confirmed as being in accordance with the project plans and specifications.
- 1.2 Actions taken in the event that site is unsuitable for erection of wall are in accordance with industry practice and delegated authority.
- 1.3 Plant and materials are located in accordance with work flow.
- Range may include but is not limited to – accessibility, services, protection against weather.
- 1.4 Materials used are in accordance with the specifications.
- 1.5 Work is set out in accordance with gauge and specifications.
- Range includes but is not limited to – bond type, cuts, broken bonds.
- 1.6 Work of other trades is protected prior to commencement of work and during work in accordance with industry practice.

Outcome 2

Build multi-centred and gauged arches.

Range multi-centred, gauged.

Performance criteria

- 2.1 Working drawing is prepared to full scale in accordance with the specifications.
- 2.2 Template is designed and made to curve specifications in accordance with industry practice.
- 2.3 Arch formwork is built to dimensions and strength in accordance with the specifications.
- 2.4 Formwork is set up to form arch in accordance with the specifications.
- 2.5 Mortar is mixed in accordance with the specifications.
- 2.6 Arch is built to plumb, level, and gauge in accordance with the specifications.
- 2.7 Bricks are laid to gauge in accordance with the specifications.

- 2.8 Pointing profile and pointing are completed in accordance with NZS 4210.
- 2.9 Removal of arch formwork is completed without damage to arch.
- 2.10 Job is left in clean and tidy condition in accordance with industry practice.

Outcome 3

Complete work operations.

Performance criteria

- 3.1 All operations are completed without damage to project, plant, staff or materials.
- 3.2 All activities comply with safety requirements set down in the site safety plan.
- 3.3 All plant is used, maintained, cleaned, and stored and work site left as specified in accordance with manufacturers, and/or legislative requirements.
- 3.4 All documentation is completed in accordance with industry practice.
- 3.5 Surplus materials are dealt with in accordance with industry practice and legislative requirements.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 January 1997	31 December 2011
Revision	2	12 January 1998	31 December 2011
Revision	3	8 April 1999	31 December 2011
Review	4	21 September 2007	31 December 2011
Revision	5	21 July 2011	31 December 2024
Review	6	30 June 2022	31 December 2024

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>.