

<b>Title</b>	<b>Build a curved brick refractory installation</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: set up work area; build a curved brick refractory installation; and complete work operations.
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<b>Classification</b>	Masonry > Refractory Installation
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<b>Available grade</b>	Achieved
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### Guidance Information

#### 1 Definitions

*Industry practice* refers to the expected standard required at the enterprise 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 and 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, machinery, tools, vehicles, plus parts, controls, and anything connected to such plant.

#### 2 Legislation and Codes of Practice relevant to this unit standard include the following:

Health and Safety in Employment Act, 1992;

Resource Management Act, 1991;

*Best Practice Guideline for Scaffolding*, 2003 Department of Labour available from

<http://www.osh.dol.govt.nz/order/catalogue/scaffolding.shtml>.

### Outcomes and performance criteria

#### Outcome 1

Set up refractory work area.

#### Performance criteria

1.1 Site is verified as safe to enter prior to entry in accordance with the specifications.

1.2 Site safety procedures are complied with as set down in the site safety plan.

- 1.3 Area of installation is confirmed as being in accordance with the specifications.
- 1.4 Actions taken in the event that area is unsuitable for installation are in accordance with industry practice.
- 1.5 Materials used are in accordance with the specifications.
- 1.6 Plant and materials are set up to ensure safe access for work operations.
- 1.7 Formwork is built to dimension and strength required in accordance with the specifications.
- 1.8 Safety equipment selected for specific work operations is accessible and operational.
- 1.9 Substrate is prepared in accordance with the specifications.
- 1.10 Access equipment is erected to comply with legislative requirements.

## **Outcome 2**

Build a curved brick refractory installation.

### **Performance criteria**

- 2.1 Mortar is mixed in accordance with the specifications.
- 2.2 First course is laid level, plumb and to line in accordance with the specifications and working drawings.
- 2.3 Joint thickness and coverage is controlled in accordance with the specifications.
- 2.4 Subsequent courses are laid in accordance with the specifications and working drawings.
- 2.5 Anchors are fitted in accordance with the specifications.
- 2.6 Expansion allowance is provided for in accordance with the specifications.
- 2.7 Bricks are bonded in accordance with the specifications.
- 2.8 Keying-up is completed in accordance with the specifications.
- 2.9 Pointing is completed in accordance with the specifications.
- 2.10 Formwork is stripped without damage to installation.

## **Outcome 3**

Complete work operations.

### Performance criteria

- 3.1 All operations are completed without damage to project, plant, or materials or injury to staff.
- 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	8 April 1999	31 December 2011
Review	3	21 September 2007	31 December 2011
Revision	4	21 July 2011	31 December 2024
Review	5	30 June 2022	31 December 2024

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