

Title	Install plastic monolithic refractories and ramming mixes		
Level	3	Credits	8

Purpose	People credited with this unit standard are able to: set up work area ready for installation; install monolithic refractories; repair monolithic refractories; and complete work operations.
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Classification	Masonry > Refractory Installation
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Available grade	Achieved
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Explanatory notes

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 evidence requirements

Outcome 1

Set up refractory work area.

Evidence requirements

- 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 Safety equipment selected for specific work operations is accessible and operational.
- 1.8 Substrate is prepared in accordance with the specifications.
- 1.9 Access equipment is erected to comply with legislative requirements.

Outcome 2

Install monolithic refractories.

Range plastic, ramming mixes.

Evidence requirements

- 2.1 Refractory material is placed in accordance with the specifications and working drawings.
Range fed, placed.
- 2.2 Refractory material is installed in accordance with the specifications and working drawings.
- 2.3 Anchors are set in accordance with the specifications.
- 2.4 Surface finishing is completed in accordance with the specifications.
- 2.5 Curing is completed in accordance with the specifications.
- 2.6 Formwork is stripped without damage to refractory material.
- 2.7 Venting is completed in accordance with the specifications.

Outcome 3

Repair monolithic refractories.

Range plastic, ramming mixes.

Evidence requirements

- 3.1 Area is prepared to provide surface which meets installation requirements.
- 3.2 Repair is rammed, finished, and cured in accordance with the specifications.

Outcome 4

Complete work operations.

Evidence requirements

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

Planned review date	31 December 2012
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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	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

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