Title	Set up and install refractory mixes		
Level	4	Credits	30

Purpose	This unit standard is intended for those working in the refractory installation industry.	
	People credited with this unit standard are able to set up and install refractory mixes to the level required of a commercially competent refractory installation trade professional.	

Classification Masonry > Refractory Installation
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Available grade	Achieved
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Guidance Information

1 Assessment

This unit standard is one of a family of standards intended to align with the *New Zealand Certificate in Trowel Trades – Specifications*, and the New Zealand Certificate in Trowel Trades (Level 4) with strands in Brick and Block Laying, Floor and Wall Tiling, Proprietary Plaster Cladding Systems, Ferro-cement Tank Manufacture, Refractory Installation, and Solid Plastering (with optional strands in Fixing Cavities and Substrates, and Decorative Mouldings) [Ref: 3137].

Evidence for this standard must reflect commercial competence.

Commercial competence requires a candidate to be capable of consistently performing the requirements of the skill specification:

- to current regulatory, industry and commercial standards
- within a commercially viable timeframe
- in commercial environments
- without supervision
- in different and unfamiliar contexts.

Commercial competence must be corroborated and confirmed by a person who has current expertise in the refractory installation trade.

2 Definitions

Job description pack refers to all required documentation for a provided to a supervisor for a specific job. A supervisor uses the information in the job description pack to provide guidance to the refractory installers.

Manufacturer's specifications refer to the documented technical data for materials provided by the manufacturer, including the specific composition of ingredients, properties, use, and safe handling procedures for the material.

Workplace procedures refer to the documented procedures specific to a workplace which sets out the standard and the required practices of that workplace.

3 Legislation, and guidance information relevant to this standard includes the following, and any subsequent amendments and replacements:

New Zealand Certificate in Trowel Trades – Specifications, BCITO, August 2021, available from www.WaihangaAraRau.nz.

Legislation accessed at www.legislation.govt.nz

- Health and Safety at Work Act 2015,
- Resource Management Act 1991.

Skill specification and performance level guidance

Skill specification

Set up and install refractory mixes.

Range may include – plastic ramming, monolithic, gunning, castables, acid resistant linings, and man-made mineral fibres.

Knowledge

How to set up ready to install refractory mixes.

Range must include – use of formwork and moulds.

The requirements for expansion and control joints to allow for the change and movement of refractories.

The requirements and processes to install refractory mixes.

Range installation includes – fed, placed, gunned.

Skills

Set up ready to install refractory mixes.

Range may include the use of formwork and moulds where required.

Allow for expansion and control joints in the installation of refractory mixes.

Install anchors to support refractory mixes.

Install refractory mixes to flat and curved surfaces.

Range installation includes – fed, placed, gunned.

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Performance level guidance

Performance must reflect installing refractory mixes in accordance with manufacturer's specifications, workplace procedures, and job description pack.

Replacement information	This unit standard replaced unit standard 31364.
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Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 August 2022	N/A

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

Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangaAraRau.nz if you wish to suggest changes to the content of this unit standard.