

Title	Demonstrate knowledge of, assemble, service and maintain moulds for masonry product manufacture		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to, for masonry product manufacture: demonstrate knowledge of mould components and specifications; inspect and service moulds; and assemble and disassemble a basic hollow core mould and plunger.
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Classification	Concrete > Concrete Product Manufacture
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Available grade	Achieved
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Guidance Information

- 1 Definition
Workplace practice refers to the documented procedures specific to a work site which set out the standard and required practices of that workplace.
- 2 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality, and material economies currently accepted within industry.
- 3 Legislation relevant to this unit standard includes:
Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995;
Resource Management Act 1991.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of mould components and specifications for masonry product manufacture.

Performance criteria

- 1.1 Common wear-parts in moulds are identified and their purpose described for types of mould used in own workplace.

Range moulds for four different types of hollow core masonry or paving product;

four of – end liner, side partition plate, centre partition plate, grid, filler plug, filler bar, shoe, agitator, core-bar assembly, end plate, core-bar clip, end core, sash bar, mortar groove bar, splitter bar, scrape-off plate, core-bar plunger pins.

- 1.2 Common non-wear-parts in moulds are identified and their purpose described for types of mould used in own workplace.

Range moulds for four different types of hollow core masonry or paving product;
four of – mounting bracket, head plunger, head plate, head spacer, pallet guide, clevis, clevis pin, adaptor frame, heating element, heating element isolation.

- 1.3 Mould manufacturer's specifications are interpreted to identify mould tolerances in accordance with workplace practice.

Range three sets of specifications.

- 1.4 The importance of correct mould specifications is explained in terms of impact on the manufacturing process, mould life, and quality of product.

Outcome 2

Inspect and service moulds for masonry product manufacture.

Range moulds for four different types of hollow core masonry or paving product.

Performance criteria

- 2.1 Mould is inspected and overall condition assessed, and requirements for servicing are identified in accordance with manufacturer's specifications and workplace practice.

Range wear, broken parts, dimensions outside tolerances.

- 2.2 Mould is serviced to meet manufacturer's specifications and in accordance with workplace practice.

Range replace, clean, repair, discard, corrosion protection.

- 2.3 Inventory of new and used mould components is maintained, and wear-parts are forward ordered to allow for just-in-time stock replenishment, in accordance with workplace practice.

Outcome 3

Assemble and disassemble a basic hollow core mould and plunger for concrete product manufacture.

Performance criteria

- 3.1 Tools for assembling mould are identified, selected, and used to ensure assembled mould meets manufacturer's specifications.
- Range four of – mould table with flat surface milled top, steel rule, engineer's square, soft face hammer, shoe spacing jig, torque wrench, vernier dial gauge, core-bar spacing jig, end plate spacer block, side bracket wedge.
- 3.2 Mould is assembled using component parts, and components are adjusted in accordance with manufacturer's specifications and workplace practice.
- 3.3 Mould is disassembled into its component parts without damage.
- 3.4 Plunger shoe is installed and gauged in accordance with manufacturer's specifications and workplace practice.

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	20 November 2009	31 December 2023
Review	2	28 October 2021	31 December 2023

Consent and Moderation Requirements (CMR) reference

0048

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.