

Title	Operate a masonry block machine for masonry product manufacture		
Level	4	Credits	16

Purpose	People credited with this unit standard are able to: describe masonry block machine plant and processes; set up the masonry block machine production process and undertake pre-production for a specified product; operate a masonry block machine; and close down a masonry block machine.
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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 workplace 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 work unsupervised, demonstrating 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

Describe masonry block machine plant and processes.

Performance criteria

- 1.1 Description includes layout of block machine plant in own workplace, its components and controls, and their function and adjustment.
- 1.2 Description includes processes for moisture control and additive control in accordance with mix design.
- 1.3 Description includes details of steps in one complete cycle of the block machine at own workplace.

- 1.4 Description includes details of health and safety requirements for operation of the block machine, in accordance with workplace practice.

Outcome 2

Set up the masonry block machine production process and undertake pre-production for a specified product.

Range one of – hollow core masonry, paving.

Performance criteria

- 2.1 Plant and machinery are checked to ensure preventative maintenance has been completed, and plant and machinery are made safe and ready for work in accordance with workplace practice.

- 2.2 Production schedule is checked and interpreted, including explanation of processes for maintaining the schedule during production in accordance with workplace practice.

- 2.3 Block machine is prepared for production in accordance with production schedule and workplace practice.

Range checking and/or adjusting – installation of mould, pallet feeder height, configuration settings for programmed production.

- 2.4 Programmed production setup is checked in accordance with workplace practice.

Range batching, mixing, machine, pallet transport, curing.

Outcome 3

Operate a masonry block machine.

Performance criteria

- 3.1 Production is initiated in accordance with workplace practice.

- 3.2 Product quality is monitored and recorded at specified intervals, and machine settings are adjusted to optimise output and quality in accordance with workplace practice.

- 3.3 Settings for product transfer are maintained in accordance with the requirements of current production, and all related documentation is completed in accordance with workplace practice.

Range one of – pallet, kiln, rack, cuber.

- 3.4 Moulds are changed, machine is dry cycled, and all machine settings related to mould change are adjusted in accordance with production schedule and workplace practice.
- 3.5 Any required immediate or deferred servicing of the machine is carried out or arranged for, and documented, in accordance with workplace practice.

Outcome 4

Close down a masonry block machine.

Performance criteria

- 4.1 Timing of last batch is determined and close-down routine is initiated in accordance with production schedule and workplace practice.
- 4.2 Mixer is locked out for cleaning in accordance with workplace practice.
- 4.3 Cleaning, servicing, and resetting for next production of block machine and pallet transport are checked in accordance with workplace practice.
- 4.4 Machine is handed over to next shift, or plant is closed, in accordance with 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>.