

Title	Perform sampling and testing for manufactured masonry products		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to, for masonry product manufacturing: demonstrate knowledge of aggregate and finished product testing; sample aggregate and finished product; test aggregate and finished product; and demonstrate knowledge of procedures and processes within a masonry product manufacturing testing room or laboratory.
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Classification	Concrete > Concrete Product Manufacture
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Available grade	Achieved
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Guidance Information

- 1 *Organisation* refers to the organisation within which the candidate is employed. *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 demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality and material economies currently accepted within industry.
- 3 Legislation and publications relevant to this unit standard include: Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995; Resource Management Act 1991; NZS 3111:1986 *Methods of test for water and aggregate for concrete*; AS/NZS 4455.1:2008 *Masonry units, pavers, flags and segmental retaining wall units – Masonry units*; and AS/NZS 4456.0:2003 *Masonry units, segmental pavers and flags – Methods of test*, available from Standards New Zealand (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of aggregate and finished product testing for masonry product manufacturing.

Performance criteria

- 1.1 Organisation's testing policy, product sampling policy, and manufacturing specifications are described in terms of purpose and content.

1.2 Sampling requirements for aggregate and finished product are described in accordance with NZS 3111:1986 and AS/NZS 4456.0:2003.

Range frequency, sampling procedures.

1.3 Testing requirements for aggregate and finished product are described in accordance with NZS 3111:1986, AS/NZS 4455.1:2008, and AS/NZS 4456:2003.

Range testing procedures, equipment used, permitted variances, recording of results.

1.4 The relationship between test results and product quality, and actions to be taken in the event of non-compliance, are described in accordance with workplace practice.

Outcome 2

Sample aggregate and finished product for masonry product manufacturing.

Performance criteria

2.1 Aggregate is sampled in accordance with workplace practice and NZS 3111:1986.

2.2 Finished product is sampled in accordance with workplace practice and AS/NZS 4456:2003.

Outcome 3

Test aggregate and finished product for masonry product manufacturing.

Performance criteria

3.1 Aggregate is tested in accordance with workplace practice and NZS 3111:1986.

Range moisture content, grading.

3.2 Finished product is tested in accordance with workplace practice and AS/NZS 4455.1:2008, and AS/NZS 4456:2003.

Range tests to determine two of – compressive strength, tensile strength, lateral modulus of rupture, breaking load, water absorption, dimensions.

Outcome 4

Demonstrate knowledge of procedures and processes within a masonry product manufacturing testing room or laboratory.

Performance criteria

- 4.1 Arrangement and documentation of test equipment calibration is described in accordance with workplace practice.
- 4.2 Maintenance and storage of master control samples is described in accordance with workplace practice.
- 4.3 Location and maintenance of documentation is described 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
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.