Title	Describe aggregate production tests in a civil engineering laboratory		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to describe, in a civil engineering laboratory: aggregate production test methods; and reporting requirements, meaning, and applicability of aggregate production test results.
	applicability of aggregate production toot recalls.

Classification	Infrastructure Civil Engineering > Infrastructure Laboratory
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Available grade Achieved

Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable organisational and legislative requirements.
- Applicable legislation, regulations, rules, standards and codes include but are not limited to the: Health and Safety at Work Act 2015, Hazardous Substances and New Organisms Act 1996 and their associated regulations and subsequent amendments; ISO/IEC 17025:2018 General requirements for the competence of testing and calibration laboratories, available from https://www.iso.org/store.html; NZS 4407:2015 Methods of sampling and testing road aggregates, available from https://standards.govt.nz.
- 3 Evidence is required for three aggregate production tests used in a civil engineering laboratory, which may include but are not limited to California Bearing Ratio, NZ standard, NZ heavy, NZ vibrating hammer, maximum density, minimum density, wet sieve (particle size), dry sieve (particle size), average least dimension, rip rap grading, broken faces.

4 Definitions

Describe refers to stating the individual components of the test sequentially in terms of the relevant test method and organisational requirements. Components will vary between the tests and include but are not limited to – the sample specifications, equipment requirements, environmental requirements, units of measurement, purpose and scope of the test. Describe does not include the explanation of results, the interaction between tests, or their scientific basis.

Organisational requirements refer to instructions to staff on policy and procedures which are formally documented or generally accepted at the worksite. This may include legislation; industry standards and methods; national and international standards and methods; standard operating procedures; specifications; manuals; and manufacturer's information.

Samples may include but are not limited to – prepared materials and test materials such as standards and reagents.

Outcomes and performance criteria

Outcome 1

Describe aggregate production test methods in a civil engineering laboratory.

Performance criteria

1.1 The test method is described in terms of scope, sample requirements, equipment, processes involved and results.

Range may include but is not limited to – equipment, apparatus, reagents,

samples, technique, calibration, environment.

1.2 The factors that influence the outcomes of the test are described.

Range may include but is not limited to – temperature, humidity,

environment, condition of sample, size of sample.

1.3 The quality assurance of the test is described.

Range may include but is not limited to – test method, recording

requirements, checking.

Outcome 2

Describe reporting requirements, meaning, and applicability of aggregate production test results in a civil engineering laboratory.

Performance criteria

2.1 The reporting requirements for test results are described.

Range may include but is not limited to – equipment, apparatus, samples,

technique, calibration, environment, rounding, remarks.

2.2 The meaning and applicability of test results are described.

Range may include but is not limited to – uncertainty of measurement,

specification reliability, limitations.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 January 2011	31 December 2016
Review	2	19 February 2015	31 December 2021
Review	3	23 January 2020	N/A
Rollover and Revision	4	24 October 2024	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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.