

Title	Describe field sampling in civil engineering		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to describe: preparation requirements for field sampling; and field sampling procedures in civil engineering.
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Classification	Infrastructure Civil Engineering > Infrastructure Laboratory
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Available grade	Achieved
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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.
- 2 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 4402:1986 *Methods of testing soils for civil engineering purposes - Preliminary and general*, available from <https://www.standards.govt.nz/>; NZS 4407:2015 *Methods of sampling and testing road aggregates*, available from <https://standards.govt.nz>.
- 3 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.
- 4 Sampling includes but is not limited to the field sampling of asphalt, bitumen, concrete, aggregates and soil.

Outcomes and performance criteria

Outcome 1

Describe preparation requirements for field sampling in civil engineering.

Performance criteria

- 1.1 The purpose and requirements for sampling are described.
- 1.2 Documentation and communication requirements for site access and safety are described.
- 1.3 Where, how and when samples should be collected is described.
- 1.4 Sampling equipment, safety equipment and container requirements are described.

Outcome 2

Describe field sampling procedures in civil engineering.

Performance criteria

- 2.1 Sampling point(s) are described.
- 2.2 Field sampling procedures are described.
- 2.3 Procedures for varying sampling plan are described.
- 2.4 Recording and labelling procedures are described.
 - Range sample appearance, environmental conditions, any other factors that may impact on sample integrity.
- 2.5 Handling and transportation procedures to maintain sample integrity are described.

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 2021
Review	2	23 January 2020	N/A
Rollover and Revision	3	24 October 2024	N/A

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

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