

Title	Describe and complete bituminous binder sampling in civil engineering		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to, in civil engineering: describe requirements for bituminous binder sampling; and complete bituminous binder sampling.
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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>; NZTA M01-A: 2022 *Specification for Performance-Graded Asphalt Binder*, available from <https://www.nzta.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.

Outcomes and performance criteria

Outcome 1

Describe requirements for bituminous binder sampling in civil engineering.

Performance criteria

- 1.1 The selection of sampling locations is described in terms of representative sampling.
- 1.2 The selection of sample increments is described in terms of homogeneous and representative sampling.
- 1.3 The methods of sampling are described in terms of their use, limits and standards.
- 1.4 The documentation requirements are described.

Outcome 2

Complete bituminous binder sampling in civil engineering.

Performance criteria

- 2.1 Sampling is planned.

Range may include but is not limited to – transport, access to sample site, customer communication.
- 2.2 Samples are taken.
- 2.3 Samples are labelled, and observations are documented.
- 2.4 Samples are transported to testing location.

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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangāAraRau.nz if you wish to suggest changes to the content of this unit standard.