

<b>Title</b>	<b>Perform quality assurance inspection and sampling for roadmarking</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: inspect roadmarking applications; verify material application usage for roadmarking; conduct dry film thickness tests on roadmarkings; and identify, report, and remedy non-compliant roadmarkings.
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<b>Classification</b>	Infrastructure Works > Roadmarking
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<b>Available grade</b>	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 relevant industry requirements.
- 2 Legislation and standards relevant to this unit standard include:
  - Hazardous Substances and New Organisms Act 1996;
  - Health and Safety at Work Act 2015;
  - Health and Safety at Work (Hazardous Substances) Regulations 2017;
  - Resource Management Act 1991;
  - Land Transport Rule: Traffic Control Devices 2004; available from [www.legislation.govt.nz/](http://www.legislation.govt.nz/);
  - NZS 3910:2013: *Conditions of contract for building and civil engineering construction*;
  - NZS 3915:2005: *Conditions of contract for building and civil engineering construction (where no person is appointed to act as engineer to the contract)*;
  - NZS 5433:2020 *Transport of dangerous goods on land*; available from [www.standards.co.nz/](http://www.standards.co.nz/);
  - Quality Standard TQS1 and TQS; available from <https://www.nzta.govt.nz/resources/index.html>;
  - and all subsequent amendments and replacements.
- 3 Definition
 

*Industry requirements* refer to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, scope of works, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents, Waka Kotahi NZ Transport Agency specifications and guidelines.

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## Outcomes and performance criteria

### Outcome 1

Inspect roadmarking applications.

#### Performance criteria

- 1.1 Dimensional tolerances are measured.
- 1.2 Material application is inspected visually.
- Range paint, beads.
- 1.3 Set-out tolerances are inspected for line placement.

### Outcome 2

Verify material application usage for roadmarking.

#### Performance criteria

- 2.1 Quantities of materials are verified against prescribed application rates.
- Range may include but is not limited to – dipsticks, computer, volume, weighing device, wet film gauge; evidence of two materials is required.
- 2.2 Test plates are laid to sample application rates, and results recorded.
- Range location, date, unit number, line type, direction.

### Outcome 3

Conduct dry film thickness tests on roadmarkings.

#### Performance criteria

- 3.1 Testing equipment calibration is verified.
- Range elcometer, shims, test plates.
- 3.2 Test zones are located on test plates in accordance with NZTA/NZRF T8 or NZTA T12 specification.
- Range test plates – 100mm, 150mm, 200mm; equipment – steel ruler, pencil.
- 3.3 Dry film zone average thickness is measured using an elcometer in accordance with NZTA/NZRF T8 or NZTA T12 specification.

3.4 Dry film thickness is determined in accordance with Appendix A of the NZTA P 12 or with NZTA P 12 Notes.

Range plate average, minimum paint film thickness, paint standard deviation, individual zone average.

3.5 Readings are recorded in accordance with NZTA/NZRF T8 or NZTA T12 specification for recording dry film measurements.

#### Outcome 4

Identify, report, and remedy non-compliant roadmarkings.

#### Performance criteria

4.1 Non-compliant roadmarkings are identified and reported.

4.2 Non-compliant roadmarkings are remedied.

<b>Planned review date</b>	31 December 2026
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 January 1999	31 December 2018
Review	2	22 September 2005	31 December 2018
Review	3	20 April 2017	31 December 2023
Review	4	30 September 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 Connexis - Infrastructure Industry Training Organisation [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.