

Title	Test and evaluate roadmarking paint applicators		
Level	4	Credits	25

Purpose	<p>This unit standard is for people who intend to obtain testing or issuing officer registration for NZTA/NZRF T8 Certificates and who meet with Waka Kotahi NZ Transport Agency criteria.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of roadmarking paint applicators and the current requirements for testing them; prepare documentation for NZTA/NZRF T8 testing; inspect roadmarking applicators and evaluate non-painting operations; evaluate roadmarking paint applicators using specified measurement methods; conduct NZTA/NZRF T8 tests on roadmarking paint applicators; and document NZTA/NZRF T8 tests and results.</p>
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Classification	Infrastructure Works > Roadmarking
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Available grade	Achieved
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Prerequisites	Class of driver licence and any driver licence endorsement appropriate for the vehicle being driven.
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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;
 - Traffic Regulations 1976; available from www.legislation.govt.nz/;
 - AS 4343:2014 *Pressure equipment – Hazard levels*, available at <https://infostore.saiglobal.com/store/Details.aspx?ProductID=1773920>;
 - NZTA/NZRF T8 specification; available from <https://www.nzta.govt.nz/>;
 - and all subsequent amendments and replacements.

- 3 For this assessment, in the event of an applicator requiring additional tests before registration, these will not be part of the assessment against this unit standard. Test sites, application materials, and identification of test plates must comply with NZTA/NZRF T8. Documented company requirements for conducting NZTA/NZRF T8 tests are to be available for assessors.
- 4 Definitions
- 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 NZTransport Agency specifications and guidelines.
- Registration Body* is the agency contracted by Waka Kotahi NZTransport Agency to manage revision of the NZTA/NZRF T8 Specification, approving Issuing Officers and maintaining the T8 Register for testing officers and applicators.
- Traceable to National Standards* means that shims carry a serial number which can be traced to demonstrate their manufacture is compliant with reference standards produced by United Kingdom Accreditation Service (UKAS) or National Institute of Standards and Technology (NIST).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of roadmarking paint applicators and the current requirements for testing them.

Performance criteria

- 1.1 NZTA/NZRF T8 is described in terms of its scope and certification requirements.
- 1.2 Maintenance of compliance is explained in accordance with NZTA/NZRF T8.
- Range renewal, confirmation of compliance.
- 1.3 Applicator types are described in accordance with NZTA/NZRF T8.
- Range A-type paint, B-type pedestrian, B-type operator-mounted, B-type umbilical, B1-type paint.
- 1.4 Requirements for test sites and application materials are described in accordance with NZTA/NZRF T8.
- 1.5 Test site layout and function are described in accordance with NZTA/NZRF T8 requirements.
- 1.6 Test plate and bead test pads are described in terms of requirements for identification.

Outcome 2

Prepare documentation for NZTA/NZRF T8 testing.

Performance criteria

2.1 Relevant documentation required to carry out testing is gathered.

Range current NZTA/NZRF T8 documentation, New Zealand Roadmarkers Federation Testing Officer Guide, New Zealand Roadmarkers Federation Inspection Checklist, New Zealand Roadmarkers Federation Run Record Sheet, New Zealand Roadmarkers Federation Summary Sheet, New Zealand Roadmarkers Federation Verifiers Checklist, manufacturer's manuals.

2.2 Calibrations for all inspection, measuring, and test equipment are sighted and recorded.

Range shims traceable to National Standards, internal calibration results for elcometer, electronic scales, stopwatch, distance measuring equipment.

Outcome 3

Inspect roadmarking applicators and evaluate non-painting operations.

Range A-type paint and at least one of – B-type pedestrian, B-type operator-mounted, B-type umbilical, B1-type paint.

Performance criteria

3.1 Road marking applicators are visually inspected in accordance with NZTA/NZRF T8.

Range identification; registration; warrant or certificate of fitness; fire control equipment.

3.2 Non-painting operations are evaluated in accordance with NZTA/NZRF T8.

Range power, control.

Outcome 4

Evaluate roadmarking paint applicators using specified measurement methods.

Performance criteria

4.1 Cleaning tests for A-type and B-type applicators are conducted in accordance with NZTA/NZRF T8.

Range bead test pad, sand.

- 4.2 Bead application tests are conducted in accordance with NZTA/NZRF T8.
Range bead test pads, electronic scales.
- 4.3 Paint application tests are conducted in accordance with NZTA/NZRF T8.
Range test plates, non-destructive thickness gauge.
- 4.4 Width determination tests, using a steel ruler, are conducted in accordance with NZTA/NZRF T8.
- 4.5 Speed determination test is conducted in accordance with NZTA/NZRF T8.
Range test plates, stopwatch, calculation by calculator.
- 4.6 Segment spacing is measured and calculated in accordance with NZTA/NZRF T8.
- 4.7 Straightness is assessed and calculated in accordance with NZTA/NZRF T8.

Outcome 5

Conduct NZTA/NZRF T8 tests on roadmarking paint applicators.

Range A-type paint and at least one of – B-type pedestrian, B-type operator-mounted, B-type umbilical, B1-type paint;
already completed test plates are not sufficient evidence for this outcome.

Performance criteria

- 5.1 Test One is demonstrated in accordance with NZTA/NZRF T8.
Range electronic scales, elcometer, stopwatch.
- 5.2 Test Two is demonstrated in accordance with NZTA/NZRF T8.
Range tape measure, stopwatch, skid tester.
- 5.3 Test Three is demonstrated in accordance with NZTA/NZRF T8.
Range A-type or B1-type; steel ruler, elcometer, stopwatch.
- 5.4 Test Four is demonstrated in accordance with NZTA/NZRF T8.
Range steel ruler, tape measure, stopwatch.

Outcome 6

Document NZTA/NZRF T8 tests and results.

Range A-type paint and at least one of – B-type pedestrian, B-type operator-mounted, B-type umbilical, B1-type paint.

Performance criteria

- 6.1 Test recording requirements are described, and tests are documented in accordance with NZTA/NZRF T8.
- 6.2 Verification of results is documented in accordance with NZTA/NZRF T8.
- 6.3 Certification records are documented in accordance with NZTA/NZRF T8.
- 6.4 Certification records are retained and available for audit in accordance with NZTA/NZRF T8.
- 6.5 NZTA/NZRF T8 certificates are registered in accordance with NZTA/NZRF T8 Registration Body requirements.

Planned review date	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	13 February 2001	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

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 Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.