

<b>Title</b>	<b>Demonstrate basic knowledge of materials, plant, and process in roadmarking</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit are able to: demonstrate basic knowledge of roadmarking materials; demonstrate basic knowledge of roadmarking application plant; and describe basic knowledge of the roadmarking application process.
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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;
  - *NZRF Roadmarking Materials Guide 2009*: available from [nzrf.co.nz](http://nzrf.co.nz);
  - Traffic Regulations 1976; available from [www.legislation.govt.nz/](http://www.legislation.govt.nz/);
  - Quality Standard TQS1 and TQS2: available from <https://www.nzta.govt.nz/resources/index.html>;
  - and all subsequent amendments and replacements.
- 3 Definitions
 

*Basic knowledge* in this context means factual knowledge of a narrow range of materials, and operational knowledge of plant and processes necessary to begin work in roadmarking. This information will be clearly documented and easily accessed and does not require detailed technical understanding, non-standard processes, or development of solutions to problems.

*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

Demonstrate basic knowledge of roadmarking materials.

#### Performance criteria

- 1.1 Generic headings for roadmarking materials are identified and described in accordance with the NZRF Roadmarking Materials Guide.
- Range compatibility, adhesion, handling and storage, occupational health and safety hazards, environmental impacts.
- 1.2 Roadmarking materials are identified and described in accordance with the NZRF Roadmarking Materials Guide.
- Range thermoplastic, cement based coatings, cold-applied plastic, self-adhesive tapes, raised pavement markers (RPMs), RPM adhesive, glass beads, angular material; evidence of paint and one other material is required.
- 1.3 Roadmarking materials are described in terms of heading content and scope for compatibility, adhesion, handling and storage, and occupational health and safety hazards in accordance with the NZRF Roadmarking Materials Guide.
- Range thermoplastic, cement based coatings, cold-applied plastic, self-adhesive tapes, RPMs, RPM adhesive, glass beads, angular material; evidence of two materials within the general description of paint; and one other material is required.

### Outcome 2

Demonstrate basic knowledge of roadmarking application plant.

Range Type-A and Type-B applicators, RPM applicators.

#### Performance criteria

- 2.1 Roadmarking application plant is identified and described.
- 2.2 Roadmarking application plant use is explained.
- 2.3 Routine maintenance of roadmarking application plant is described.

### Outcome 3

Describe basic knowledge of the roadmarking application process.

Range protection of work sites, preparation of work surface, set-out, application of material, protection of markings until set or dry, disestablishment of work site.

**Performance criteria**

- 3.1 The roadmarking application process is described.
- 3.2 Communication requirements for roadmarking application process are described.
- 3.3 Roles within roadmarking application process are described.
- 3.4 Roadmarking equipment is described in terms of the use in the application process.

Range personal protective equipment, cleaning, end-plates, stencils, stringing line, reseal tags, signs, cones.

<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	22 September 2005	31 December 2018
Review	2	20 April 2017	31 December 2023
Review	3	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.