

Title	Demonstrate knowledge of specifications used for complex roadmarking		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of specifications used for complex roadmarking; use references to obtain and interpret details of complex roadmarking requirements and complete a specification review schedule.
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Classification	Infrastructure Works > Roadmarking
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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 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/;
 - 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)*; available from www.standards.co.nz/;
 - Manual of traffic signs and markings (MOTSAM);
 - Quality Standard TQS1, Quality Standard TQS2;
 - Traffic control devices manual (TCD) manual; available from www.nzta.govt.nz/resources/index.html;
 - and all subsequent amendments and replacements.
- 3 Definitions
Complex roadmarking is roadmarking performed by a team or teams involving multiple marking elements and involve calculations. Example situations include sections of longitudinal marking lines greater than 150m, complex intersection markings, median strips, raised pavement markers (RPMs), airport markings and sports courts.

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 New Zealand Transport Agency specifications and guidelines.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of specifications used for complex roadmarking.

Performance criteria

- 1.1 The scope and application of marking categories are described in accordance with Waka Kotahi NZ Transport Agency specifications and guidelines.
- 1.2 Specifications for road markings and raised pavement markers (RPMs) are stated in accordance with Waka Kotahi NZ Transport Agency specifications and guidelines.
- 1.3 Specifications for dimensional tolerances, application rates, material diary entries, traffic management, setting out, preparation of road surface, non-conforming markings, remedial markings, and equipment calibration are stated in accordance with Waka Kotahi NZ Transport Agency specifications and guidelines.

Outcome 2

Use references to obtain and interpret details of complex roadmarking requirements and complete a specification review schedule.

Performance criteria

- 2.1 Waka Kotahi NZ Transport Agency specifications and guidelines details are identified and interpreted in terms of complex roadmarking and RPM requirements.
- 2.2 Waka Kotahi NZ Transport Agency specifications and guidelines are referred to and details of specifications identified and interpreted in terms of complex roadmarking and RPM requirements.
- 2.3 Details of complex roadmarking requirements are used to complete a specification review schedule in accordance with Waka Kotahi NZ Transport Agency specifications and guidelines, Quality Standard TQS2 and the New Zealand Roadmarkers Federation specification review schedule.

Replacement information	This unit standard and unit standard 21430 replaced unit standard 15933.
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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	22 September 2005	31 December 2018
Review	2	20 April 2017	31 December 2018
Review	3	20 July 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.