

Title	Repaint roadmarkings with an A-type applicator		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to: prepare for repainting roadmarkings; repaint roadmarkings using an A-type applicator; maintain communications with relevant parties during roadmarking operations; and shut down roadmarking plant, clear the site, and document operations.
----------------	---

Classification	Infrastructure Works > Roadmarking
-----------------------	------------------------------------

Available grade	Achieved
------------------------	----------

Prerequisites	Class of driver licence and any driver licence endorsement appropriate for the vehicle being driven.
----------------------	--

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, standards, and codes 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)*;
 - NZS 5433:2020: *Transport of dangerous goods on land*; available from www.standards.co.nz/;
 - *The official New Zealand truck loading code 2017*;
 - Quality Standard TQS1 and TQS2; available from <https://www.nzta.govt.nz/resources/index.html>;
 - and all subsequent amendments and replacements.

- 3 This unit standard refers to A-type applicators. For this assessment, operator-mounted applicators suitable for applying longitudinal markings commonly referred to as B1-type applicators would also meet the assessment requirements of this unit standard. For B-type applicators refer to Unit 18048, *Prepare a B-type paint applicator for roadmarking*. Performance criterion 4.2 may be assessed against using a simulated scenario.
- 4 It is recommended people achieve Unit 18045, *Prepare an A-type applicator for roadmarking*, or demonstrate equivalent knowledge and skills before being assessed against this unit standard.
- 5 **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 NZ Transport Agency specifications and guidelines.
Road Controlling Authority (RCA) in relation to a road, means the Minister of Transport, Crown entities, State enterprises, or territorial authorities that control the road.

Outcomes and performance criteria

Outcome 1

Prepare for repainting roadmarkings.

Performance criteria

- 1.1 Personal protective equipment is fitted and worn.
- 1.2 Equipment is set up for marking to tolerances specifications.
- Range marking – edge line, centre line, double lines, continuity dots; equipment – pointers, paint computers (where fitted), driving mirrors.

Outcome 2

Repaint roadmarkings using an A-type applicator.

Range operating on left and right sides of the vehicle, marking straight and curved lines, continuous and intermittent.

Performance criteria

- 2.1 A-type applicator is operated in accordance with Traffic Management Plan (TMP) and RCA requirements.
- Range use of arrow-boards; entry and egress of applicator; placement of cones, signs, and other delineation devices.
- 2.2 A-type applicator is operated.
- Range commencement of marking, temporary halts, cessation of marking.
- 2.3 Paint and beads are applied to roadmarkings in accordance with given dry film parameters, and within the location and dimension tolerances.
- Range longitudinal markings – more than 150m in length, edge lines, centre lines, no-passing lines, double lines.
- 2.4 Specific roadmarking tasks are carried out in accordance with plant and machinery supplier instructions.
- Range tasks may include but are not limited to – calibration, process control, adjustments, product information as specified by the client or company; evidence of two tasks is required.

Outcome 3

Maintain communications with relevant parties during roadmarking operations.

Performance criteria

- 3.1 Communication is maintained with company personnel in accordance with contract specifications.
- Range work sequence and methodology, any emergency procedures.
- 3.2 Communication is maintained with parties involved in the roadmarking operation in accordance with contract specifications.
- Range sub-contractors, client or client's representative, company management.
- 3.3 Communication is maintained with the public in accordance with contract specifications.
- 3.4 Communication is maintained with pilot vehicle(s) in accordance with TMP requirements.
- 3.5 Communication is maintained during mobile operations in accordance with the TMP and temporary traffic management requirements.

Outcome 4

Shut down roadmarking plant, clear the site, and document operations.

Performance criteria

4.1 Plant is shut down in accordance with machinery manufacturer's instructions.

Range paint system, auxiliary motor (where fitted), left-hand drive, pointers, driving mirrors, safe disposal of waste.

4.2 Emergency shutdown is demonstrated in accordance with company safety plan.

Range paint spill, burst hose.

4.3 Site is cleared, and equipment and materials are secured for travel in accordance with the official New Zealand truck loading code 2017.

4.4 Materials diary is completed.

Range paint and bead type, quantities, location, and extent of markings.

Replacement information	This unit standard, unit standard 18045, and unit standard 18047 replaced unit standard 15929.
--------------------------------	--

Planned review date	31 December 2026
----------------------------	------------------

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
--	------

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.