Title: Undertake and supervise new roadmarking work using a B-type applicator

Level: 4

Credits: 15

Purpose: People credited with this unit standard are able to: prepare to undertake and supervise new roadmarking work using a B-type applicator; undertake and supervise new roadmarking work using a B-type applicator; and document new paint applications.

Classification: Infrastructure Works > Roadmarking

Available grade: Achieved

Entry information

Prerequisites: Unit 18048, Prepare a B-type paint applicator for roadmarking, or demonstrate equivalent knowledge and skills.

Guidance Information

1. The requirements within the following legislation and regulations applying to roadmarking operations must be complied with as appropriate for the context of assessment against this unit standard:
   - Employment Relations Act 2000;
   - Health and Safety at Work Act 2015;
   - Health and Safety in Employment Regulations 1995;
   - Accident Compensation Act 2001;
   - Resource Management Act 1991;
   - Traffic Regulations 1976;

2. The requirements within the following codes of practice and guidelines applying to roadmarking operations must be complied with as appropriate for the context of assessment against this unit standard:
   - Codes of practice and checklists published by the New Zealand Roadmarkers Federation, available at www.nzrf.co.nz/technical-documents/.
   - New Zealand Transport Agency’s publications, principal external manuals, manual amendments, specific examples include: Code of Practice for Temporary Traffic Management (COPTTM); www.nzta.govt.nz/resources/code-temp-traffic-management/copttm.html;
   - Manual of Traffic Signs and Markings, Part 2;

3 The requirements within the following New Zealand Standards applying to roadmarking operations must be complied with as appropriate for the context of assessment against this unit standard:
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 5433:2012: Transport of dangerous goods on land; available at www.standards.co.nz/.

4 Assessment against this unit standard must take place in a workplace environment. Assessment parameters will be dependent on company and site-specific equipment, procedures, and practices.

5 Definitions

- **Company requirements** include the policy, procedures, and methodologies of the company. They include requirements in company and site health, safety and environmental plans, quality assurance documents, job plans, and contract work and reporting documents.

- **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.

- **Traffic Management Plan** (TMP) is a document describing the design, implementation, maintenance and removal of temporary traffic management.

- **Truck Loading Code** is the code of practice for the safety of loads and load security on heavy vehicles, for heavy transport operators. It includes both general and specialised requirements. ISBN: 047306104X, author Land Transport Safety Authority.

6 The title refers to B-type applicators. To clarify this unit standard does not apply to operator-mounted applicators suitable for applying longitudinal markings commonly referred to as B1-type applicators. For B1-type applicators refer to unit standard 18047, *Apply new roadmarkings with an A-type applicator.*

7 Candidates must hold a driver licence of the appropriate class for the gross vehicle mass of the vehicle being driven.

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**Outcomes and performance criteria**

**Outcome 1**

Prepare to undertake and supervise new roadmarking work using a B-type applicator.
Performance criteria

1.1 Job plan is checked and any potential practicality or compliance issues are identified and resolved prior to work taking place.

1.2 Tasks of all team members are identified from job plan and coordinated in accordance with company requirements.

1.3 Personal protective equipment is fitted and worn in accordance with company requirements.

1.4 B-type applicator is loaded on and unloaded from the transport vehicle or trailer in accordance with the Truck Loading Code.

1.5 Equipment is set up for marking to tolerances specified in NZTA P22.

Range marking – letters, arrows, chevrons, car parks, no stopping; equipment – pointers, paint computers (where fitted).

Outcome 2

Undertake and supervise new roadmarking work using a B-type applicator.

Range includes but is not limited to – operating one side of the vehicle; marking straight and curved lines, letters, arrows, chevrons and carparks.

Performance criteria

2.1 New roadmarking activities are coordinated with the work of sealing contractor and any other subcontractors.

2.2 B-type applicator and transport vehicle are operated in accordance with TMP and RCA requirements.

Range includes but is not limited to – entry and egress of applicator; placement of cones, signs, and other delineation devices.

2.3 B-type applicator is operated in accordance with the New Zealand Roadmarkers Federation, Safety, Health and Environment Guide.

Range includes but is not limited to – commencement of marking, temporary halts, cessation of marking.

2.4 Set-outs are checked for practicality and compliance with Manual of Traffic Signs and Markings, Part II, in accordance with company requirements. Any identified issues are resolved in accordance with company requirements.

2.5 Paint and beads are applied to given set-out markings in accordance with the job plan, with given dry film thickness, and within the location and dimension tolerances of NZTA P22.

Range letters, arrows, chevrons, car parks, no stopping, intersections.
2.6 Safety of roadmarking team is monitored and maintained throughout the roadmarking application.

Outcome 3

Document new paint applications.

Performance criteria

3.1 Materials diary is completed in accordance with NZTA P22 and company requirements.

Range includes but is not limited to – paint and bead type; quantities; location and extent of markings.

3.2 Quality assurance records are maintained in accordance with company requirements.

3.3 Health and safety records are maintained in accordance with company requirements.

Range includes but is not limited to – hazard assessment, accident or incident records.

3.4 Stock control forms are completed in accordance with company requirements.

3.5 New markings are recorded in accordance with NZTA P22.

Range includes but is not limited to – recording as-builts.

Replacement information

This unit standard, unit standard 18048, and unit standard 18049 replaced unit standard 15945.

Planned review date

31 December 2022

Status information and last date for assessment for superseded versions

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