Title	**Operate a truck-mounted roller-spreader on infrastructure worksites**		
Level	**3**	**Credits**	**6**

Purpose	People credited with this unit standard are able to: – demonstrate knowledge of truck-mounted roller-spreaders; – prepare to carry out roller-spreader operations; – carry out work operations using a roller-spreader; and – complete post-operational procedures for a truck-mounted roller-spreader.

Classification	Infrastructure Works > Infrastructure Works Equipment

Available grade	Achieved

Guidance Information

1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.

2 Legislation and references relevant to this unit standard include:
Health and Safety at Work Act 2015, available from www.legislation.govt.nz;
NZTA M6: Sealing Chip, available from Sealing chip | NZ Transport Agency Waka Kotahi (nzta.govt.nz);
Chipsealing in New Zealand, available from Chipsealing in New Zealand | NZ Transport Agency Waka Kotahi (nzta.govt.nz).

3 This unit standard assesses the operation of the roller-spreader and does not assess the driving of the truck to which the spreader is attached.

4 Definitions
Industry requirements may refer to but are not limited to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, 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.
Job instructions are those given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of truck-mounted roller-spreaders.

Performance criteria

1.1 Roller-spreaders are described in terms of their purpose, components and functions, and correct operation.

1.2 The effect and inter-relationship of hoist height, truck speed, roller speed, and spreader feed gate settings, is described in terms of material flow control.

Outcome 2

Prepare to carry out roller-spreader operations.

Performance criteria

2.1 Job instructions are confirmed and communicated to driver in accordance with industry requirements.

2.2 Pre-start check of machine is carried out prior to starting work and any required action is taken in accordance with industry requirements.

Range machine operation, damage, wear and tear.

2.3 Roller-spreader settings, hoist angle, and speed of truck are set after discussion with driver and accordance with specified material coverage rate.

2.4 A hazard check of site and machine is carried out, and any identified hazards are eliminated or minimised in accordance with industry requirements.

Outcome 3

Carry out work operations using a roller-spreader.

Performance criteria

3.1 Stop and start locations are complied with in accordance with job requirements.

3.2 Instructions are given to truck driver in terms of hoist angle, truck speed, and truck direction adjustment in accordance with job instructions and industry requirements.

3.3 Positioning is maintained continuously within the range of view of driver or, if operating a roller-spreader fitted with an approved platform and guard rails, communication is maintained continuously with driver.

3.4 Height of truck tray is monitored, and adequate clearances are maintained during spreading operations.

3.5 Truck driver is advised of conditions that require spreading operations to cease in accordance with industry requirements.

3.6 Material coverage rate is monitored, and adjustments are made to roller-spreader to achieve coverage in accordance with job instructions.

Range adjustments – spreader feed gate, peripheral spread of roller, cut-off plates.

Outcome 4

Complete post-operational procedures for a truck-mounted roller-spreader.

Performance criteria

4.1 Machine is shut down safely, and secured, and daily maintenance is carried out, in accordance with industry requirements.

4.2 Machine is inspected, and any faults are reported in accordance with industry requirements.

Planned review date	31 December 2029

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 March 1998	31 December 2013
Revision	2	5 January 1999	31 December 2013
Review	3	27 October 2005	31 December 2013
Review	4	15 March 2012	31 December 2016
Review	5	19 February 2015	31 December 2021
Review	6	27 September 2018	31 December 2026
Review	7	12 December 2024	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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangaAraRau.nz if you wish to suggest changes to the content of this unit standard.