Title	**Operate a truck-mounted roller-spreader on infrastructure works sites**		
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 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2015; Health and Safety in Employment Regulations 1995;
Code of Practice for Temporary Traffic Management (CoPTTM), and
NZTA M6: Sealing Chip,
available at http://nzta.govt.nz/resources;
Chipsealing in New Zealand, available at
http://www.nzta.govt.nz/resources/chipsealing-new-zealand-manual/.

2 Assessment against this unit standard must take place in a workplace environment, and the candidate must be familiar with the type and weight of plant to be used for assessment. Assessment parameters will depend on company and site-specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements.

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
Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the company or a specific site. Requirements are documented in the company's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and 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 company requirements.

2.2 Pre-start check of machine is carried out prior to starting work and any required action is taken in accordance with company 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 company 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 company 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 at all times during spreading operations.

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

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

Planned review date	31 December 2023

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	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 the Infrastructure ITO qualifications@infrastructureito.org.nz if you wish to suggest changes to the content of this unit standard.