

Title	Operate a motor scraper on infrastructure worksites		
Level	3	Credits	20

Purpose	People credited with this unit standard are able to: describe motor scrapers; prepare for motor scraper operations; manoeuvre and control a motor scraper on site; transport materials using a motor scraper; and complete post-operational procedures for a motor scraper.
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Classification	Infrastructure Works > Civil Plant Operation
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Available grade	Achieved
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Prerequisites	Class of driver licence and any driver licence endorsement appropriate for the vehicle being driven.
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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 legislative and industry requirements.
- 2 Legislation relevant to this unit standard includes – Health and Safety at Work Act 2015, and all subsequent amendments and replacements.
- 3 Definition
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, 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

Describe motor scrapers.

Performance criteria

- 1.1 Motor scrapers and their controls are described in terms of purpose and function, and correct operation.

- 1.2 Types and weights of motor scraper are described in terms of their capabilities and limitations, and suitability for specific infrastructure works tasks.
- 1.3 Motor scrapers are described in terms of their safety features and requirements for safe use.

Outcome 2

Prepare for motor scraper operations.

Performance criteria

- 2.1 Job instructions are confirmed.
- 2.2 Pre-start check of machine and 360 walkaround are carried out prior to starting work and any required actions are taken.

Range machine operation, damage, wear, and tear, cutting edges.
- 2.3 A risk assessment of the site and machine is carried out, and any identified hazards are eliminated or minimised.
- 2.4 Site communication protocols are confirmed.

Outcome 3

Manoeuvre and control a motor scraper on site.

Performance criteria

- 3.1 Motor scraper is manoeuvred on site with adequate clearances and in accordance with job instructions.
- 3.2 Motor scraper is controlled on level ground.
- 3.3 Machine controls are used to produce smooth movement of bowl and ejector.
- 3.4 Motor scraper is controlled in wet site conditions.
- 3.5 Structures are preserved when manoeuvring scraper.
- 3.6 Machine production is maintained at maximum usage relative to the task and the safety of the operator and machine.

Range lead times, engine revolutions, travel speeds, haul distances.
- 3.7 Cooperation of motor scraper operator with operators of other plant on the worksite took place.

Outcome 4

Transport materials using a motor scraper.

Performance criteria

- 4.1 Materials are loaded in accordance with machine capacity.
- 4.2 Materials are hauled in accordance with machine capacity and the limitations of the terrain.
- 4.3 Materials are spread in layers to specified depth and distance in accordance with job instructions.
- 4.4 Stockpiles are constructed, and materials are uplifted from stockpiles in accordance with job instructions.

Outcome 5

Complete post-operational procedures for a motor scraper.

Performance criteria

- 5.1 Motor scraper is parked, shut down safely and secured, and daily maintenance is carried out.
- 5.2 Motor scraper is inspected, and any faults are reported.

Replacement information	This unit standard replaced unit standard 6461.
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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	30 May 2000	31 December 2014
Review	2	25 September 2006	31 December 2016
Review	3	19 February 2015	31 December 2021
Review	4	27 September 2018	31 December 2023
Review	5	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.