

Title	Operate a power-driven rotary broom on infrastructure worksites		
Level	3	Credits	6

Purpose	<p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – demonstrate knowledge of power-driven rotary brooms, – prepare for rotary broom operations; – manoeuvre and control a rotary broom on site, – sweep surfaces with a rotary broom; and – complete post-operational procedures for a power-driven rotary broom.
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Classification	Infrastructure Works > Infrastructure Works Equipment
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Available grade	Achieved
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Prerequisites	Class of driver licence required 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 the Health and Safety at Work Act 2015 available from www.legislation.govt.nz.
- 3 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 power-driven rotary brooms.

Performance criteria

- 1.1 Power-driven rotary brooms and controls are described in terms of purpose and function, and correct operation.
- 1.2 Types and weights of power-driven rotary broom are described in terms of their capabilities and limitations, and suitability for specific infrastructure tasks.
- 1.3 The differences between hard sweeping and soft brooming are explained in terms of reasons for their use and suitability for specific infrastructure applications.
- 1.4 Power-driven rotary brooms are described in terms of their safety features and requirements for safe use.

Outcome 2

Prepare for rotary broom operations.

Performance criteria

- 2.1 Job instructions are confirmed 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 A hazard check of site and machine is carried out, and any identified hazards are eliminated or minimised in accordance with industry requirements.
- 2.4 Site communication protocols are confirmed in accordance with industry requirements.

Outcome 3

Manoeuvre and control a rotary broom on site.

Performance criteria

- 3.1 Broom is manoeuvred on site with adequate clearances in accordance with job instructions.
- 3.2 Broom is manoeuvred with smoothness of movement and machine stability.
- 3.3 When manoeuvring broom, work area settings are preserved at all times.
- 3.4 Machine production is maintained at maximum usage relative to the task and the safety of the operator and machine.

Outcome 4

Sweep surfaces with a rotary broom.

Performance criteria

- 4.1 Surfaces are swept in accordance with job instructions and industry requirements.
- Range first coat, reseal, base course, footpaths, existing road surfaces, running course;
evidence of two surfaces is required.
- 4.2 Sweeping to edge and sweeping to channel are demonstrated in accordance with industry requirements.
- 4.3 Windrowing to edge and windrowing to centre are demonstrated in accordance with industry requirements.
- 4.4 Dust is controlled in accordance with industry requirements.

Outcome 5

Complete post-operational procedures for a power-driven rotary broom.

Performance criteria

- 5.2 Vehicle is parked, shut down safely and secured, and daily maintenance is carried out, in accordance with manufacturer's instructions.
- 5.3 Vehicle is inspected and any faults or wear on bristles are reported in accordance with industry requirements.

Planned review date	31 December 2029
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 July 1996	31 December 2014
Revision	2	9 March 1999	31 December 2014
Review	3	30 May 2000	31 December 2014
Review	4	25 September 2006	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
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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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangāAraRau.nz if you wish to suggest changes to the content of this unit standard.