

<b>Title</b>	<b>Operate a power-driven rotary broom on infrastructure works sites</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to: 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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<b>Classification</b>	Infrastructure Works > Infrastructure Works Equipment
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Class of driver licence required for the vehicle being driven.
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### Guidance Information

- 1 Legislation relevant to this unit standard includes: Health and Safety at Work Act 2015 and Health and Safety in Employment Regulations 1995.
- 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 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.

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### 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 works 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 works 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 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 A hazard check of site and machine is carried out, and any identified hazards are eliminated or minimised in accordance with company requirements.
- 2.4 Site communication protocols are confirmed in accordance with company 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 company requirements.
- Range surfaces include two of – first coat, reseal, base course, footpaths, existing road surfaces, running course.
- 4.2 Sweeping to edge and sweeping to channel are demonstrated in accordance with company requirements.
- 4.3 Windrowing to edge and windrowing to centre are demonstrated in accordance with company requirements.
- 4.4 Dust is controlled in accordance with company 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 company requirements.

<b>Planned review date</b>	31 December 2023
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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	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

Please contact the Infrastructure ITO at [qualifications@connexis.org.nz](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.