

Title	Determine application rates for agrichemicals		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to demonstrate knowledge of calibrations for agrichemicals and determine agrichemical application rates.
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Classification	Rural Contracting > Agrichemical Application
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices, NZS 8409:2004 Management of Agrichemicals, and be in accordance with relevant legislative and industry requirements.
- 2 Legislation and references relevant to this unit standard include:
 - Hazardous Substances and New Organisms Act 1996;
 - Health and Safety at Work Act 2015;
 - Resource Management Act 1991, available from www.legislation.govt.nz;
 - NZS 8409:2004 *Management of Agrichemicals*, available from www.standards.govt.nz;
 - and all subsequent amendments and replacements.
- 3 Definitions

Agrichemical refers to any substance, whether inorganic or organic, man-made or naturally occurring, modified or in its original state, that is used in any agriculture, horticulture, or related activity to eradicate, modify, or control flora or fauna.

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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of calibrations for agrichemicals.

Performance criteria

- 1.1 The general formula for application rates is identified and its key factors are described.
- 1.2 The formula for determining forward speed is described
- 1.3 The formula for determining volume rate is identified and methods for measuring output are described.
- 1.4 Requirements for calibration checks are described.

Outcome 2

Determine agrichemical application rates.

Range evidence of two different chemicals is required.

Performance criteria

- 2.1 The width of the application is determined.
- 2.2 The forward speed is determined, and a speed test is completed.
- 2.3 Gear, throttle, and pressure settings are recorded.
- 2.4 The amount of chemical required per tank load is calculated including a recalculation following a change of at least one variable.

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	28 January 2000	31 December 2023
Review	2	3 October 2006	31 December 2023
Review	3	25 June 2007	31 December 2023
Review	4	26 August 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.