

Title	Prepare to apply and apply agrichemicals using motorised equipment		
Level	3	Credits	4

Purpose	<p>This unit standard is for a person who is responsible for the preparation of equipment for agrichemical application, and preparation and application of agrichemicals using motorised equipment.</p> <p>People credited with this unit standard are able to: prepare and apply agrichemicals using motorised equipment; and dispose of surplus mix, decontaminate, clean and store equipment, and complete documentation.</p>
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Classification	Primary Sector > Plant Pest, Weed, and Disease Control
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Health and Safety at Work Act 2015;
 - Hazardous Substances and New Organisms (HSNO) Act 1996;
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Resource Management Act 1991;
 - Land Transport Act 1998;
 - local regional and territorial authority regulatory requirements.
- 2 The New Zealand Standard applicable to this unit standard is NZS 8409:2004 *Management of agrichemicals*, or subsequent replacement, available from <http://www.standards.govt.nz>.
- 3 Definitions

Agrichemical – any substance, whether inorganic or organic, man-made or naturally occurring, modified or in its original state, that is used to eradicate, modify or control flora and fauna. It is a subset of agricultural compounds and includes pesticides, spray additives, fertilisers, vertebrate pest control products, and oral nutrition products.

Workplace procedures – the verbal or written instructions to staff on the procedures for worksite, equipment, and documentation.
- 4 Range

Motorised agrichemical application equipment may include but is not limited to – boomspray, air blast sprayer, high volume spray race, mister, multi head controlled

droplet application (CDA) sprayer, sheep shower, other motorised application equipment either towed or self-propelled.

Specified primary sector may be any one of – agriculture, equine, forestry, horticulture, amenity turf, sports turf.

5 Assessment

This unit standard must be assessed in a commercial workplace or simulated commercial workplace situation.

- 6 It is recommended that candidates have achieved the following unit standard prior to assessment: Unit 21563, *Demonstrate understanding of the legislation, regulations and standards for the use of agrichemicals.*

Outcomes and performance criteria

Outcome 1

Prepare to apply agrichemicals using motorised equipment.

Performance requirements

- 1.1 Select personal protective equipment according to job requirements and fit and use in accordance with NZS 8409:2004 and workplace procedures.
- 1.2 Select and prepare agrichemicals in accordance with NZS 8409:2004 and workplace procedures.
- Range preparation – measurement, mixing.
- 1.3 Prepare agrichemical application equipment in accordance with NZS 8409:2004 and manufacturer's specifications.
- Range includes but is not limited to – clean, leak free, droplet size for target and/or conditions.

Outcome 2

Apply agrichemicals using motorised equipment.

Performance requirements

- 2.1 Calibrate agrichemical application equipment in accordance with workplace procedures and manufacturer's recommendations.
- Range calibration may include but not limited to – travel speed, application rate, total flow or delivery rate, swath width, track spacing, target definition.
- 2.2 Apply agrichemicals at the required rate in accordance with label requirements and NZS 8409:2004.

- 2.3 Apply agrichemicals on target avoiding off target spray drift in accordance with NZS 8409:2004.

Outcome 3

Dispose of surplus mix, decontaminate, clean and store equipment and complete documentation.

Performance requirements

- 3.1 Dispose of surplus mix in accordance with NZS 8409:2004.
- 3.2 Decontaminate, clean and store, or dispose of equipment associated with agrichemical application in accordance with NZS 8409:2004.
- Range equipment – personal, application.
- 3.3 Document agrichemical use in accordance with NZS 8409:2004 and workplace procedures.
- Range may include but is not limited to – spray diary, record of weather conditions, tracking systems.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 August 2011	31 December 2020
Review	2	26 September 2019	31 December 2022
Review	3	24 September 2020	N/A

Consent and Moderation Requirements (CMR) reference	0232
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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 the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.