

<b>Title</b>	<b>Prepare to apply and apply agrichemicals using motorised equipment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to apply agrichemicals using motorised equipment; describe the principles of calibration and apply agrichemicals using motorised equipment; dispose of surplus mix, decontaminate or clean and store equipment and complete documentation.
----------------	---

<b>Classification</b>	Primary Sector > Plant Pest, Weed, and Disease Control
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

---

### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Agricultural Compounds and Veterinary Medicines Act 1997;
  - Hazardous Substances and New Organisms (HSNO) Act 1996;
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991.
- 2 Regulations and standards relevant to this unit standard include but are not limited to:
  - Local regional and territorial authority regulatory requirements;
  - NZS 8409:2021 Management of Agrichemicals.
- 3 All evidence presented in this unit standard must be in accordance with workplace procedures and NZS 8409:2021.
- 4 The New Zealand Standard applicable to this unit standard is NZS 8409:2021 *Management of agrichemicals*, or subsequent replacement, available from <http://www.standards.govt.nz>.
- 5 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, and foliar fertilisers.

*Clean* – a procedure to rinse thoroughly (with water) to remove any dilute or remaining agrichemical.

*Decontaminate* – is a specific procedure to remove and neutralise any remaining agrichemical.

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

- 6 **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, sports turf.
- 7 **Assessment**  
This unit standard must be assessed in a workplace or simulated workplace situation.
- 8 It is recommended that candidates have achieved the following unit standard prior to assessment: Unit Standard 21563, *Describe hazard classification systems, and the safe and responsible use of agrichemicals.*

---

## Outcomes and performance criteria

### Outcome 1

Prepare to apply agrichemicals using motorised equipment.

#### Performance requirements

- 1.1 Select personal protective equipment (PPE) according to job requirements, and fit and use.
- 1.2 Prepare agrichemicals.  
**Range** preparation includes but is not limited to – measurement, mixing, empty containers.
- 1.3 Prepare agrichemical application equipment in accordance with manufacturer's specifications.  
**Range** preparation includes but is not limited to – clean, leak free, droplet size for target and/or conditions.
- 1.4 Complete an on-site risk assessment before starting application.  
**Range** assessment includes but is not limited to – sensitive areas, weather conditions, required notification and signage, PPE.

### Outcome 2

Describe the principles of calibration and apply agrichemicals using motorised equipment.

**Performance requirements**

2.1 Describe the principles of calibrating agrichemical application equipment in accordance with manufacturer's recommendations.

Range principles may include but are not limited to – travel speed, application rate, total flow or delivery rate, swath width, track spacing, target definition; evidence of two principles is required.

2.2 Apply agrichemicals at the required rate in accordance with label requirements.

2.3 Apply agrichemicals on target avoiding off target spray drift.

**Outcome 3**

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

**Performance requirements**

3.1 Dispose of surplus mix.

3.2 Decontaminate or clean and store, or dispose of equipment associated with agrichemical application.

Range equipment may include but is not limited to – personal, application; evidence of one equipment type is required.

3.3 Document agrichemical use.

Range documents may include but are not limited to – application record, record of weather conditions, tracking systems; evidence of one document is required.

<b>Planned review date</b>	31 December 2027
----------------------------	------------------

**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	31 December 2024
Review	4	26 May 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0232
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

---

### Comments on this unit standard

Please contact the Muka Tangata – People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.