

Title	Describe the configuration of aerial agrichemical application equipment		
Level	4	Credits	5

Purpose	<p>This unit standard is for people who apply agrichemicals, liquid fertilisers, or suspension fertilisers, by aircraft.</p> <p>People credited with this unit standard are able to describe: nozzles used for aerial agrichemical application; nozzle and boom selection for a specified aerial agrichemical application task; and nozzle and boom configuration for aerial agrichemical application.</p>
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Classification	Agriculture > Aerial Agrichemical Application
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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 –
Civil Aviation Act 1990, and relevant Rules;
Hazardous Substances and New Organisms Act 1996;
Health Act 1956;
Health and Safety in Employment Act 1992.
- 2 The New Zealand Standard applicable to this unit standard is NZS 8409:2004 *The management of agrichemicals*, available from <http://www.standards.co.nz>.
- 3 Definition
agrichemical – 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 and fauna. For the purposes of aerial agrichemical application, it includes liquid fertilisers, and suspension fertilisers.

Outcomes and performance criteria

Outcome 1

Describe nozzles used for aerial agrichemical application.

Range nozzles – hydraulic, rotary, impact.

Performance criteria

- 1.1 Nozzles are described in terms of their characteristics.

Range droplet size, droplet range, flow rate.

- 1.2 Nozzles are described in terms of the relationship between their orientation on the boom, and droplet size.

Outcome 2

Describe nozzle and boom selection for a specified aerial agrichemical application task.

Performance criteria

- 2.1 Nozzle selection is described in accordance with the droplet size required, and the type of agrichemical used.

Range nozzles – hydraulic, rotary, impact.

- 2.2 Boom selection is described in accordance with a specified task.

Range must include – placement spraying, drift spaying; evidence is required for at least one other task.

Outcome 3

Describe nozzle and boom configuration for aerial agrichemical application.

Range evidence is required for at least three configurations.

Performance criteria

- 3.1 Nozzle and boom configuration is described in accordance with the task, rate, prevailing conditions, and in order to maximise efficacy of the agrichemical.

- 3.2 Nozzle and boom configuration is described in terms of the likelihood of spray drift for specified tasks.

- 3.3 Strategies which reduce the likelihood of spray drift from specified nozzle and boom configurations are described in accordance with NZS 8409:2004.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 May 2005	31 December 2022
Review	2	22 October 2020	31 December 2022

Consent and Moderation Requirements (CMR) reference	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.