

Title	Interpret label information and apply agrichemicals to sports turf using a knapsack sprayer		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: interpret agrichemical product documentation for an agrichemical used in the sports turf industry; and apply agrichemicals using a knapsack sprayer in a sports turf context; and complete a spray diary for agrichemical application in a sports turf context.
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Classification	Sports Turf > Sports Turf Weeds and Pests
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Available grade	Achieved
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Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Hazardous Substances and New Organisms Act 1996;
 - Health and Safety at Work Act 2015;
 - Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017;
 - Resource Management Act 1991;
 - and any subsequent amendments.

- 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.co.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.

Knapsack sprayer – a non-motorised spraying apparatus consisting of a knapsack tank together with pressurizing device, line, and sprayer nozzle, worn on the back or carried in the hand.

Workplace procedures – the procedures and standards set by the client or employing organisation for agrichemical application and maintenance of the agrichemical applicator. Workplace procedures should reflect local regional and territorial authority regulatory requirements, equipment manufacturer's requirements, and current legislation.

- 4 For the purposes of assessment:
- evidence must be presented in accordance with workplace procedures.
 - assessment must be carried out in a commercial sports turf workplace or simulated commercial sports turf workplace situation.

Outcomes and performance criteria

Outcome 1

Interpret agrichemical product documentation for an agrichemical used in the sports turf industry.

- 1.1 Interpret label information for an agrichemical commonly used in the sports turf industry.

Range includes but is not limited to – trade name, active ingredient name, target pest(s), hazard classes, certification requirements, personal protective equipment (PPE) requirements, label rates, water rates, mixing and application instructions, safety instructions when mixing and applying.

- 1.2 Interpret information found on the Safety Data Sheet (SDS), and Haznote or Product Safety Card for an agrichemical commonly used in the sports turf industry.

Range includes but is not limited to – emergency procedures, first aid procedures, certification requirements.

Outcome 2

Apply agrichemicals using a knapsack sprayer in a sports turf context.

Performance criteria

- 2.1 Select and fit personal protective equipment according to label recommendations and NZS 8409:2004 *Management of agrichemicals*.

Range may include but is not limited to – respirator, gloves, boots, overalls, safety glasses; evidence of at least two items is required.

- 2.2 Mix agrichemicals safely in the knapsack sprayer according to label recommendations, NZS 8409:2004 *Management of agrichemicals*.

Range equipment maintenance checks, measuring, mixing order, personal safety.

2.3 Apply agrichemicals to a turf area in accordance with label recommendations and NZS 8409:2004 *Management of agrichemicals*.

Range includes but is not limited to – hazard identification and minimisation, avoidance of spray drift, minimisation of turf damage, cleaning and storage of application equipment.

Outcome 3

Complete a spray diary for agrichemical application in a sports turf context.

Performance criteria

3.1 Complete a spray diary for agrichemical application.

Range includes but is not limited to – date and time, applicators name, location, target, agrichemical name, agrichemical and water rates, weather conditions, hazard minimisation practices.

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	24 June 2021	N/A

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>.

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.