

<b>Title</b>	<b>Describe pests in crops and pasture and agrichemicals for their control</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe crop and pasture pest plants and agrichemicals for their control; describe crop plant pests and disease organisms and agrichemicals for their control; and describe pasture plant pests and disease organisms and agrichemicals for their control.
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<b>Classification</b>	Rural Contracting > Agrichemical Application
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Learning and assessment for this unit standard must be in accordance with the following:
  - Health and Safety at Work Act 2015 (HSWA);
  - Health and Safety at Work (Hazardous Substances) Regulations 2017;
  - Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;
  - Agricultural Compounds and Veterinary Medicines Act 1997;
  - Resource Management Act 1991;
  - EPA Notices: Hazardous Substances (Hazardous Property Controls) Notice 2017;
  - Land Transport Act 1998;
  - Hazardous Substances and New Organisms Act 1996 (HSNO);
  - Land Transport Rule: Dangerous Goods 2005;
  - NZS 8409:2004 Management of agrichemicals (NZS 8409);
  - Resource Management Act 1991;
  - and all subsequent amendments and replacements.
  
- 2 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.

*Pests* refers to pest plants, plant pests, disease organisms.

*Pest plants* refer to unwanted plants that are counter-productive in terms of the agricultural purpose.

*Plant pests* refer to insects and/or other animal plant pests.

*Disease organisms* refer to plant and/or animal disease organisms.

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## Outcomes and performance criteria

### Outcome 1

Describe crop and pasture pest plants and agrichemicals for their control.

#### Performance criteria

1.1 Pest plants present in crop and pasture are identified and described in terms of effect on product and productivity.

Range evidence of six pest plants is required.

1.2 Agrichemicals to control the identified pest plants are described in terms of key factors.

Range key factors may include but are not limited to – growth stages, crop and pasture growth stages, label directions, formulations, hazard schedule rating, compatibility, solubility, toxicity, volatility, selectivity, target resistance, withholding period, destination market requirements, persistence, re-entry.

### Outcome 2

Describe crop plant pests and disease organisms and agrichemicals for their control.

#### Performance criteria

2.1 Plant pests and disease organisms present in crops are identified and described in terms of effect on product and productivity.

Range evidence of two plant pests and two disease organisms is required.

2.2 Agrichemicals to control the identified plant pests and disease organisms present in crops are described in terms of key factors.

Range key factors may include but are not limited to – plant pest lifecycles, disease organism lifecycles, type of crop and crop growth stages, lifecycles of beneficial insects and/or other animals, label directions, formulations, hazard schedule rating, compatibility, solubility, toxicity, volatility, selectivity, target resistance, withholding period, destination market requirements, persistence, re-entry.

### Outcome 3

Describe pasture plant pests and disease organisms and agrichemicals for their control.

**Performance criteria**

3.1 Plant pests and disease organisms present in pasture are identified and described in terms of effect on product and productivity.

Range evidence of two plant pests and two disease organisms is required.

3.2 Agrichemicals to control the identified plant pests and disease organisms present in pasture are described in terms of key factors.

Range key factors may include but are not limited to – plant pest lifecycles, disease organism lifecycles, type of pasture and pasture growth stages, lifecycles of beneficial insects and/or other animals, label directions, formulations, hazard schedule rating, compatibility, solubility, toxicity, volatility, selectivity, target resistance, withholding period, destination market requirements, persistence, re-entry.

<b>Planned review date</b>	31 December 2024
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	25 June 2007	31 December 2020
Review	2	24 October 2019	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@connexis.org.nz) if you wish to suggest changes to the content of this unit standard.