

<b>Title</b>	<b>Recognise plant pests, diseases, and disorders, and beneficial organisms</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	<p>This unit standard is for people working in the primary sector who require the skills to visually recognise plant pests, diseases, and disorders.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of plant pests, diseases, and disorders of a crop in a specified primary sector workplace; and recognise plant pests, diseases, disorders, pollinators, and beneficial organisms in a specified primary sector workplace.</p>
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<b>Classification</b>	Primary Sector > Plant Pest, Weed, and Disease Control
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<b>Available grade</b>	Achieved
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**Explanatory notes**

- 1 Legislation and regulations relevant to this unit standard include but are not limited to –
  - Hazardous Substances and New Organisms Act 1996;
  - Agricultural Compounds and Veterinary Medicines Act 1997;
  - Biosecurity Act 1993;
  - local regional and territorial authority regulatory requirements.
  
- 2 Definitions
  - Plant pest* – an undesirable organism injurious to humans or plants.
  - Plant disease* – a plant growth symptom that develops in response to infection from a pathogen.
  - Plant disorder* – a plant growth response to an abiotic factor such as nutrient deficiency, weather or herbicide damage.
  - Signs* – indication of the presence of the plant pest, plant disease, or plant disorder.
  - Symptoms* – the plant’s response to the presence of the plant pest, plant disease, or plant disorder.
  - Recognise* – visual identification of the plant pest, disease, disorder, pollinator, and beneficial organism in the field.
  - Workplace procedures* – the verbal and written instructions to staff on the procedures for worksite, equipment, and documentation.
  - Crop* – whatever the specified primary sector is growing; for example, sports turf, equine, and agriculture – the crop may be grass; amenity turf – the crop may be grass or flower beds; forestry – the crop may be trees.

**3 Range**

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

*Primary sector industry* – may be any subsector of a specified primary sector, for example, agriculture – dairy, sheep; equine – sport horse, racing; forestry – plantation forest, wood manufacturing; horticulture – viticulture, fruit production; amenity turf – sports turf, golf course, bowling green.

**Outcomes and evidence requirements****Outcome 1**

Demonstrate knowledge of plant pests, diseases, and disorders of a crop in a specified primary sector workplace.

**Evidence requirements**

1.1 Plant pests, diseases and disorders in a specified primary sector crop are described in terms of the stage of the life cycle when they are most easily identified and controlled.

Range evidence is required for at least three plant pests, three plant diseases, and three plant disorders.

1.2 Plant pests, diseases and disorders in a specified primary sector crop are described in terms of the stage of the life cycle when they are most resistant to control.

Range evidence is required for at least three plant pests, three plant diseases, and three plant disorders.

1.3 Types of insect damage are described in terms of their economic impact on the specified primary sector workplace.

Range may include but is not limited to – indirect damage, direct damage, vector disease, contamination; evidence is required for economic impact of at least three types of damage.

**Outcome 2**

Recognise plant pests, diseases, disorders, pollinators, and beneficial organisms in a specified primary sector workplace.

**Evidence requirements**

2.1 The presence of significant pests, diseases, or disorders in a specified primary sector workplace is detected in accordance with workplace procedures, and the pest, disease or disorder is named using common names.

Range detection by at least one of – eye, using a hand lens, using stereo microscope.

- 2.2 Common pests, diseases and disorders that may affect a specified primary sector crop in one specified district are recognised in terms of the crop signs and symptoms.
- 2.3 The presence of pollinators and beneficial organisms on a plant are detected and named in accordance with the specified primary sector industry requirements and workplace procedures.

<b>Replacement information</b>	This unit standard, unit standard 27212, and unit standard 27214 were replaced by unit standard 29890.
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**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	18 August 2011	31 December 2020
Review	2	16 February 2017	31 December 2020

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

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.