

Title	Describe and carry out monitoring of plant pests and diseases		
Level	3	Credits	5

Purpose	<p>This unit standard is for people working in the primary sector who carry out monitoring of plant pests and diseases.</p> <p>People credited with this unit standard are able to: describe the methods of plant pest and disease monitoring for a specified primary sector workplace situation; monitor crop plant pests and diseases, and detect any crop anomalies; and record, report and/or correct the results of monitoring activities.</p>
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Classification	Primary Sector > Plant Pest, Weed, and Disease Control
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Available grade	Achieved
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Explanatory notes

- 1 Legislation includes but is not limited to the Health and Safety in Employment Act 1992.
- 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.
 - 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.
 - Workplace procedures* – the verbal and written procedures to staff on the procedures for worksite, equipment, and documentation.
- 3 Range
 - Specified primary sector* may be any one of agriculture, equine, forestry, horticulture, amenity, sports turf.

Outcomes and evidence requirements

Outcome 1

Describe the methods of plant pest and disease monitoring for a specified primary sector workplace situation.

Evidence requirements

- 1.1 Pest populations are described in terms of the factors which determine their presence or absence.
- Range includes but is not limited to – environmental factors, presence of natural enemies and beneficial organisms, production practices.
- 1.2 Plant pest and disease monitoring is described in terms of a specified primary sector crop and situations which require it to be carried out.
- Range threshold, injury level, injury; evidence is required for at least two situations.
- 1.3 Plant pest and disease monitoring systems are described in terms of the techniques relevant for a specific crop, and the associated procedures.
- Range may include but is not limited to – visual, light traps, pyrethrum, detergents, boards, soil sampling, field scouting, random sampling, pheromone traps, sticky traps, indicators; evidence is required for at least two.

Outcome 2

Monitor crop plant pests and diseases, and detect any crop anomalies.

Evidence requirements

- 2.1 Crop plant pest and disease monitoring is carried out in the field in accordance with workplace procedures.
- 2.2 Signs or symptoms of anomalies in the crop other than those specifically being monitored, if detected, are identified in accordance with workplace procedures.
- Range anomalies may include but are not limited to – pests and/or diseases, variations in crop health, foreign bodies in the growing environment, structural issues, maintenance issues.

Outcome 3

Record, report and/or correct the results of monitoring activities.

Evidence requirements

- 3.1 The results of monitoring, including any variations from normal, are recorded in accordance with workplace procedures.
- Range may include but is not limited to – presence of – pests, disease, disorders, predators, beneficial organisms; crop health.
- 3.2 Anomalies detected in the growing environment are reported and/or corrected in accordance with workplace procedures.

3.3 The results of monitoring are reported in accordance with workplace procedures.

Planned review date	31 December 2016
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 August 2011	N/A

Consent and Moderation Requirements (CMR) reference	0232
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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.

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.