

Title	Demonstrate understanding of pest plant operations in New Zealand		
Level	3	Credits	8

Purpose	<p>This unit standard is for people involved with pest plant operations in New Zealand.</p> <p>People credited with this unit standard are able to: describe pest plant introduction to New Zealand; and demonstrate understanding of pest plant identification and control techniques, agrichemicals for control of pest plants, and pest plant monitoring.</p>
----------------	--

Classification	Pest Management > Pest Control
-----------------------	--------------------------------

Available grade	Achieved
------------------------	----------

Explanatory notes

- 1 Definitions
 Pest plants refer to –
 - a. *Environmental pest plant* – any plant that threatens the balance of our natural environment
 - b. *Agricultural pest plant* – plants that grow and threaten the production values of agricultural land
 - c. *Aquatic pest plant* – Pest plants that threaten all waterways
 Relevant requirements refers to –
 - *Workplace procedures* – the verbal or written procedures that apply to the pest plant workplace
 - *Best practice guidelines and Standard Operating Procedures (SOPs)* – guidelines and protocols as set out by industry groups such as, Environmental Protection Authority (EPA), Department of Conservation (DOC), and pest product manufacturers
 - Legislation and regulations as set out by government and local bodies Legislation includes but is not limited to: the Health and Safety at Work Act 2015, and regional plans from regional councils

- 2 Standard Operating Procedures (SOPs) may or may not be enforceable depending on whether or not they have been endorsed by the Environmental Risk Management Authority (ERMA)

- 3 In the context of this unit standard, *understanding* means that there should be evidence of a learner’s thorough comprehension of a topic. A learner with a good understanding of a topic should have applied, or should be able to apply what they have learnt to a workplace situation and will be able to alter their practices to the

different contexts they are applying their learning to. Assessors should be confident that the learner's understanding is embedded in their practices and behaviour.

Outcomes and evidence requirements

Outcome 1

Describe pest plant introduction to New Zealand.

Range four environmental, four agricultural, and two aquatic pest plants

Evidence requirements

- 1.1 Identify which country pest plants in New Zealand were introduced from, and explain reasons for their introduction.

Outcome 2

Demonstrate understanding of the characteristics used to identify, and identify pest plants.

Range four environmental, four agricultural, and two aquatic pest plants

Evidence requirements

- 2.1 Describe four physical characteristics used to identify pest plants.
- 2.2 Identify pest plants using relevant physical characteristics.
- 2.3 Describe two key features of the pest plants' preferred habitat.
- 2.4 Describe two key features of the pest plants' mode of reproduction.

Outcome 3

Demonstrate understanding of pest plant control techniques.

Range hand held sprayers, cutting and stump treating, frilling, manual removal

Evidence requirements

- 3.1 Describe pest plant control techniques and the situation best suited for their use.
- 3.2 Describe appropriate treatment and timing of control techniques for different cycles of pest plant growth.

Range techniques should include those used at various stages of the pest plant life cycle from juvenile to reproductive
- 3.3 Describe one advantage and one disadvantage of each pest plant control technique.

Outcome 4

Demonstrate understanding of agrichemicals used for control of pest plants.

Range four agrichemical formulations

Evidence requirements

4.1 Describe when each type of agrichemical formulation is recommended for use on pest plants.

Range description must include one of the three variables: growth stage of pest plant, soil type, environment

4.2 Describe one mode of action of agrichemicals.

4.3 Describe one best practice consideration for each agrichemical used.

Outcome 5

Demonstrate understanding of pest plant monitoring in New Zealand.

Range four environmental, four agricultural, and two aquatic pest plants

Evidence requirements

5.1 Describe the purpose of pest plant monitoring and how it benefits pest plant management in New Zealand.

5.2 Describe two types of monitoring approaches for pest plants.

5.3 Describe all pest plant monitoring recording and reporting techniques according to workplace procedures.

Planned review date	31 December 2021
----------------------------	------------------

Last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 July 2016	N/A

Consent and Moderation Requirements (CMR) reference	0052
--	------

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 (CMRs). 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 ITO standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.