

ASSESSMENT GUIDELINES

Unit 1805

Monitor pests in a vegetable crop, and
investigate strategies to rectify an imbalance

Level 4, Credit 4, Version 6

Monitor pests in a vegetable crop, and investigate strategies to rectify an imbalance.

Unit standard 1805

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Level of performance required for this unit standard

This is a level 4 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under broad guidance, independently; with complete responsibility for the standards of the outcome achieved.
- To apply technical skills, knowledge, and innovation to complete the task to the specified standard, in a variety of familiar and unfamiliar contexts.
- To analyse and interpret information, and make an informed judgment.

Workplace assessment:

For guidelines on Workplace Assessment, please refer to the NZHITO Workplace Assessors Manual, and for further information, please contact: NZHITO, P O Box 8638, Christchurch. Ph 03 9644 735, fax 03 9644 737, website www.hortito.org.nz

Special notes:

- 1 *Workplace procedures* refer to oral or written instructions to staff on procedures for the worksite and equipment.
- 2 Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992; Employment Relations Act 2000; Resource Management Act 1991; Privacy Act 1993; Hazardous Substances and New Organism Act 1996 and related regulations; and Occupational Safety and Health Approved Codes of Practice.
- 3 Relevant reference material may include but is not limited to – Lucas, Rob., *Managing Pests and Diseases – A Handbook for New Zealand Gardeners*. (Craig Potton Publishing, 2005).

**Unit 1805: Monitor pests in a vegetable crop, and investigate strategies to rectify an imbalance.
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
<p>Element 1 Describe lifecycles of specific pests and diseases of a vegetable crop.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ In terms of their lifecycle sequence, and crop signs and symptoms, describe specific pests that could affect a selected vegetable crop, and where appropriate beneficial organisms that could predate or parasitise them. This should include - at least five pests, and where appropriate two beneficial organisms. ▪ In terms of the disease lifecycle, and the crop signs and symptoms, describe and correctly name specific diseases of a selected vegetable crop at different stages of its lifecycle. This should include at least four diseases.
<p>Element 2 Monitor organism numbers.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Randomly sample disease signs or symptoms from the crop, and report when numbers reach a stated threshold level in accordance with workplace procedures. ▪ Regularly monitor and clean the monitoring systems in accordance with workplace procedures. Report when a threshold number of specific insects are detected, in accordance with workplace procedures. Monitoring systems may include but are not limited to - pheromone traps, sticky traps, indicators. ▪ Examine random samples of plant material to count and report specific species of pest and predator or parasite in accordance with workplace procedures.
<p>Element 3 Investigate a range of strategies to rectify an imbalance between beneficial and non-beneficial insects for a specific vegetable crop.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Identify the characteristics of pesticides used to control production plant pests for a specific vegetable crop, in accordance with workplace procedures. These may include - pest controlled, chemical group, formulation, toxicity, mode of action, resistance potential, impact on beneficial and non-beneficial insects. ▪ Determine the agrichemicals, application rates, and timing to correct the balance between pests and parasites or predators, or to reduce any potential disease problem for a specific vegetable crop. ▪ Develop an integrated pest management programme for a specific vegetable crop, in terms of pest organisms it controls and required grower inputs in accordance with workplace procedures. This may include but is not limited to - cultural, biological and chemical control methods.

(Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 1805, version 6

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

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Please send this page to your NZHITO Regional Manager, who will forward it to National Office to register the credits on your NZQA Record of Learning.

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