

ASSESSMENT GUIDELINES

Unit 1674

Select control programmes for amenity plant
pests

Level 4, Credit 8, Version 5

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Unit standard 1674
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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, PO Box 8638, Christchurch. Ph 03 9644 735, fax 03 9644 737, website www.hortito.org.nz

Special notes:

Legislation relevant to this unit standard includes but is not limited to the Hazardous Substances and New Organisms Act 1996, and subsequent amendments.

Unit 1674: Select control programmes for amenity plant pests (Apprentice copy)

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Identify specific amenity plant pests	Yes/No	<ul style="list-style-type: none"> ▪ Recognise chewing and rasping insects and name them by viewing signs and/ or symptoms. The range of chewing and rasping insects includes: <i>Caterpillars</i> – case moth, green looper, leaf roller, and any <i>five</i> of: cabbage tree caterpillar, cutworms, kowhai moth caterpillar, magpie moth caterpillar, flax looper, flax notcher, tomato fruit worm, leaf webber (gregarious tinead), porina caterpillar; <i>Beetles</i> – any <i>two</i> of grass grub beetle, bronze beetle, lemon tree borer; Borer; <i>Weevils</i> – any one common weevil pest; <i>Leaf miner</i> – any one common leaf miner pest; <i>Midge</i> – any one common midge pest; <i>Miscellaneous</i> – any one of bulb fly, cherry slug, earwigs. ▪ Recognise and name sap-sucking insect pests by viewing signs and/ or symptoms. Range: aphids, thrips, plant hoppers, whitefly, mealybugs, scale insects, spittlebug, psyllids. ▪ Recognise and name mite pests by viewing signs and/or symptoms. Range: two-spotted mite or any other spider mite, and <i>one</i> example from any of the following eriophyid mites, tarsonemid mites, acarid mites. ▪ Recognise and name nematode pests by viewing signs and/ or symptoms. Range: bulb nematodes, leaf nematodes, root nematodes. ▪ Recognise and name other plant pests by viewing signs and/ or symptoms. Range: slugs and snails, slaters, millipedes, birds, possums, rabbits.
Element 2 Compare a range of pest control measures	Yes/No	<ul style="list-style-type: none"> ▪ Explain biological pest control and illustrate with examples given for common predators, parasites and pathogens. These may include but are not limited to: ladybirds, lacewing larvae, hoverfly larvae, praying mantis, predatory mites, <i>Bacillus thuringiensis</i> ▪ Explain cultural pest control methods and illustrate with common examples. Range: hygiene, crop rotation, soil water management, environmental modification, prevention of plant injury, use of resistant cultivars, use of quarantine. ▪ Summarise pesticides used to control amenity plant pests according to chemical name, formulation, toxicity, mode of action and resistance potential. ▪ Explain the principle of integrated pest control and compare specific programmes. ▪ Outline health and safety precautions for using pesticide. Range: precautions to protect the user, other people, other crops, the environment according to the standard.
Element 3 Select an integrated pest control programme for a specified amenity horticultural situation	Yes/No	<ul style="list-style-type: none"> ▪ List major pests present in relationship to their vulnerable life cycle stages. ▪ Select agricultural methods that complement cultural and biological methods already in use. ▪ Integrate cultural, biological and chemical methods in to the selected programme to achieve a level of control acceptable to the amenity establishment and situation. ▪ Ensure programme selected is justified against at least two other available programmes. Range: other integrated programmes, cultural, biological or chemical.

(Name of Apprentice)

is **Competent** / **Not yet competent** in Unit Standard 1674 (version 5)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

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