

ASSESSMENT GUIDELINES

Unit 1668

Demonstrate knowledge of common amenity
plant pests, diseases and disorders

Level 3 Credit 8, version 5

Demonstrate knowledge of common amenity plant pests, diseases and disorders

Unit standard 1668
Level 3, Credit 8, Version 5

Level of performance required for this unit standard

This is a level 3 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under general supervision, with some independence; with significant responsibility for the standard of the outcome achieved.
- To apply technical skills and knowledge to complete the task to the specified standard, in a familiar context.
- To interpret available information, and use discretion and 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:

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

**Unit 1668: Demonstrate knowledge of common amenity
plant pests, diseases and disorders
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
<p>Element 1 Identify the main types and give common examples of amenity plant pests, diseases and disorders.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Recognise pest damage signs and symptoms in terms of four pests with chewing mouthparts, four pests with sap-sucking mouthparts and two pests with rasping mouthparts. ▪ Recognise signs and symptoms of fungal pathogens in terms of their effects on plant growth. Range: five of- botrytis (grey mould), downy mildew, leaf (black) spots, powdery mildew, rusts, sclerotinia, phytophthora. ▪ Recognise examples of fungal disease on amenity plants and accepted common names. Range: five of- botrytis (grey mould), downy mildew, leaf (black) spots, powdery mildew, rusts, sclerotinia, phytophthora. ▪ Recognise symptoms of bacterial damage in terms of their effect on amenity plants. Range: cankers, galls, fireblight. ▪ Recognise nematode damage in terms of its effect on plant growth. Range: leaf blotches, leaf distortions, lesions, root knots. ▪ Recognise viral disease symptoms in terms of their effect on plant growth. Range: stunting, distortion, leaf bunching, mosaic mottling, chlorotic patterns, leaf and flower streaking, vein clearings, ring spot. ▪ Recognise physiological disorder symptoms in terms of their effects on amenity plants. Range: leaf scorch, distortion, discolouring, stunting, hormone damage, senescence, frost damage.
<p>Element 2 Describe the principles of prevention and control of amenity plant pests, diseases and disorders.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Outline pest and pathogen life cycles in terms of control opportunities. Range: pests - four pests with chewing mouth parts, four pests with sap-sucking mouth parts and two pests with rasping mouthparts, phytophthora.; Fungal pathogens- powdery mildew, downy mildew, black spots, Rusts; Bacterial pathogens- cankers, galls; fireblight; Nematodes. ▪ Explain the relationships between disease pathogen, host and environmental conditions in terms of control opportunities. ▪ Outline pest, disease and disorder control measures in terms of cultural options. Range: mechanical, screens/barriers, temperature, humidity and ventilation control, watering methods. ▪ Outline pest and disease control measures in terms of biological and integrated pest management options. Range: Biological options may include; predators, parasites, pathogens. Integrated Pest Management options may include; regulatory, biological, genetic, cultural, physical and chemical. ▪ Outline pest and disease control measures in terms of agrichemical options. Range: insecticides, nematicides, miticides, fungicides, bactericides; translocated, contact, fumigant, stomach poison. ▪ Outline pest and disease control measures in terms of integrated pest management. Range: regulatory, biological, genetic, cultural, physical and chemical.

(Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 1668 (version 5)

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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