

ASSESSMENT GUIDELINES

Unit 22177

Demonstrate knowledge of the structure and
function of plants

Level 2, Credit 5, version 1

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Unit standard 22177

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Level of performance required for this unit standard

This is a level 2 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under general supervision, as directed; with some responsibility for the standard of the outcome achieved.
- To complete tasks that are established and familiar, with a moderate range of skill and knowledge.
- To apply basic operational knowledge, use readily available information and known solutions to solve familiar problems.

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:

None

Unit 22177: Demonstrate knowledge of the structure and function of plants (Apprentice copy)

| ELEMENT | Competent | Range of evidence an assessor should consider |
|--|---------------|--|
| Element 1 Demonstrate knowledge of plant structures and their functions. | Yes/No | <ul style="list-style-type: none"> ▪ Describe the cellular nature of plants in terms of cell structure, formation, and function. ▪ Describe roots in terms of the structure, function and importance to plant growth and stability. ▪ Describe stems in terms of structure, function and importance to plant growth. ▪ Describe leaves in terms of structure, function and importance to plant growth. ▪ Describe flowers and fruit in terms of structure, function and importance to plant regeneration. |
| Element 2 Describe plant tissue structures and their functions. | Yes/No | <ul style="list-style-type: none"> ▪ Describe vascular systems and cambium tissue in terms of their importance to plant growth. Range: root cambium, stem cambium, xylem, phloem. ▪ Describe meristem tissue in terms of their importance to plant growth. ▪ Describe epidermal tissue in terms of their importance to plant growth. ▪ Describe storage tissue in terms of their importance to plant growth. Range: stem and root tubers, corms, bulbs, roots. ▪ Recognise and explain internal and external plant signs, and used them to identify the age of a particular shoot. Range: lateral growth rings, external rings on shoots. ▪ Identify fruit buds and vegetative buds, and define them in terms of their significance at pruning time and for propagation. |

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 22177. (version 1)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

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(Assessor copy)**

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