

ASSESSMENT GUIDELINES

Unit 20572

Bud and graft young plants

Level 4, Credit 10, version 2

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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 the technical skills, supporting 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 judgement.

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

Entry requirements:

Recommended: Unit Standard 20556, *Demonstrate knowledge of plant propagation*, or demonstrate equivalent knowledge and skills.

Special notes:

Workplace procedures refers to verbal or written instructions to staff on procedures for the worksite and equipment.

Legislation relevant to this unit standard includes, but is not limited to, the Health and Safety in Employment Act 1992, the Resource Management Act 1991, and their subsequent amendments.

Work may involve exposure to chemical, dangerous, or hazardous substances. Safety procedures are observed in accordance with NZS 8409:2004 *Management of Agrichemicals*, available from Standards New Zealand <http://standards.co.nz>, or the NZ Agrichemical Education Trust <http://growsafe.co.nz>.

Learners should recognise the rights of plant breeders and licensed growers under the Plant Variety Rights Act 1987, trademarks, copyright, patents or any other protection method, and understand the responsibilities of propagators to observe those rights.

**Unit 20572: Bud and graft young plants
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Collect scion wood	Yes/No	<ul style="list-style-type: none"> • Mark scion wood when the desired characteristics can be observed, or source it from a reputable supplier. • Select scion wood. Cut wood in a manner appropriate to the species or cultivar and in accordance with workplace practices. Scion wood needs to be from marked plants or reputable supplier, pest and disease free, suitable diameter and growth stage, exposed to the sun, labelled with species and/or cultivar name. • Bundle and store scion wood until needed, in conditions that maintain viability.
Element 2 Graft plants	Yes/No	<ul style="list-style-type: none"> • Graft plants at the right time that is appropriate for the plant species and/or cultivar and the grafting technique used. • Prepare rootstock plants for grafting. Rootstocks can be in the field or greenhouse. • Graft plants. They can be either root grafted or top grafted in line with workplace practices. Two different types of graft must be used from the following: whip, whip and tongue, cleft, machine, side. • Completed grafts must have the following attributes to make success likely: compatibility, sufficient buds per scion, scions right way up, smooth cuts, cambium layers matching, firmly tied or secured, cut surfaces weather proof.
Element 3 Bud plants	Yes/No	<ul style="list-style-type: none"> • Bud plants at the right time that is appropriate for the plant species and/or cultivar and the grafting technique used. • Prepare rootstock plants for budding. • Bud plants according to workplace practices. Budding to be one of: T-bud or inverted T-bud, chip bud. • Completed buds must have the following attributes to make success likely: compatibility, buds right way up, smooth cuts, cambium layers matching, firmly secured in place.
Element 4 Care for plants after grafting	Yes/No	<ul style="list-style-type: none"> • Maintain the environment for indoor plants to encourage callusing, graft union formation and plant growth. • Maintain field grown plants according to workplace practices to maximize growth and prevent competition from pests, diseases and weeds. • Remove tapes, patches, or other holding devices after the bud or graft has taken so as to prevent restriction of plant stem and scion growth. • Cut back budded plants to the bud and treat the cut surface according to workplace practices. • Support the scion growth as necessary, and remove competing root stock growth according to workplace practices.
Element 5 Keep records of propagation by budding and grafting	Yes/No	<ul style="list-style-type: none"> • Label propagated plant material. Label may include: plant species or cultivar name, date, operator. • Keep records of plants propagated according to workplace practices. Records may include: species and/or cultivar name, source of scion material, date scion material collected, date scion material used, budding or grafting technique, heading back of rootstock.

(Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 20572 (version 2)

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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