



Australian Government

Department of Education, Employment and Workplace Relations

AHCPHT204A Undertake field budding and grafting

Release: 1

AHCPTH204A Undertake field budding and grafting

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the process of undertaking field budding and grafting and defines the standard required to: take budding and grafting material from plants; select and prepare stock for budding and grafting; demonstrate a range of budding and grafting techniques; maintain labels and records of the budding and grafting operation; and dispose of unused grafting material according to environmental and disease management procedures.
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Application of the Unit

Application of the unit	This unit applies to the process of undertaking budding and grafting of trees, shrubs, vines and other plant types in nurseries or in-field situations. Field budding and grafting is usually carried out within established company procedures.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA

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1. Prepare parent material for budding and grafting	1.1. Parent plant is prepared and the method of taking budding or grafting material is employed suitable to the species according to organisational procedures. 1.2. Tools and equipment are free from contamination, and hygiene practices are followed according to organisational guidelines. 1.3. Tools appropriate to the task being undertaken are chosen and used according to organisational guidelines, and safe working practices are employed.
2. Prepare budding and grafting materials	2.1. Budding/grafting material is selected for propagation according to organisational guidelines and supervisors instructions. 2.2. Viability of materials is maintained by appropriate storage according to the requirements of the species. 2.3. Discarded material is disposed of according to organisational waste disposal guidelines and/or procedures. 2.4. Stock is prepared according to species and organisational guidelines. 2.5. Budding/grafting materials and stock are handled in a way that prevents damage.
3. Bud/graft scion	3.1. Budding/grafting method is selected according to species and organisational guidelines. 3.2. Bud/graft is sealed according to instructions. 3.3. Labels and identification are correct and applied according to organisational guidelines. 3.4. Records are completed accurately and at the required time according to organisational guidelines. 3.5. Out-of-specification process and equipment performance is identified, rectified and/or reported.
4. Complete budding/grafting activities	4.1. Equipment is cleaned as required. 4.2. Unused grafting material is disposed of/stored according to company procedures. 4.3. Waste generated by both the grafting and cleaning procedures is collected, treated, disposed of or recycled according to company procedures. 4.4. Workplace information is recorded in the appropriate format.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- access workplace information to identify grafting requirements
- select, fit and use appropriate personal protective equipment (PPE)
- select appropriate material for budding/grafting
- prepare material for grafting
- select and prepare equipment as required
- bud/graft plants according to instructions
- operate equipment safely
- treat plants after budding/grafting
- store unused grafting material
- take corrective action in response to out-of-specification results or non-compliance
- sort, collect, treat, recycle or dispose of waste as required
- clean equipment after use
- use literacy skills to follow sequenced written instructions and record information accurately and legibly
- use oral communication skills/language competence to fulfil the job role as specified by the organisation, including questioning, active listening, asking for clarification and seeking advice from supervisor
- use numeracy skills to estimate, calculate and record routine workplace measures
- use interpersonal skills to relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities.

Required knowledge

- botany, plant anatomy and physiology
- root stocks and scion stock
- importance of selection and use of rootstock
- stages of the budding/grafting procedure and their purpose
- common problems and corrective action required
- operation, components and purpose of budding/grafting and equipment
- maintenance requirements of equipment
- procedures and responsibilities for reporting problem
- environmental issues and controls
- cleaning requirements of work area and equipment
- recording requirements and procedures.

Evidence Guide

EVIDENCE GUIDE	
The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • take budding and grafting material from plants • select and prepare stock for budding and grafting • demonstrate a range of budding and grafting techniques • maintain labels and records of the budding and grafting operation • dispose of unused grafting material according to environmental and disease management procedures.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.

Range Statement

RANGE STATEMENT	
The range statement relates to the unit of competency as a whole.	
Plants may include:	• trees • shrubs • vines and other plant types in nurseries or in field situations.
Materials may include:	• cuttings • buds • dormant or green material • nursery rootstock

RANGE STATEMENT	
	• rootlings • mature plants.
Budding/grafting methods may include:	• T buds • chip • wedge • side bark.

Unit Sector(s)

Unit sector	Production horticulture
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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