



Australian Government

FWPFGM2212 Graft cuttings

Release: 1

FWPFGM2212 Graft cuttings

Modification History

Release	Comment
1	Replaces equivalent FPIFGM2212B Graft cuttings, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to prepare and graft cuttings on to a mature plant. The unit applies to pre-planting treatments and nutritional care in a variety of work settings including forest environments, farms, agriculture, workshops, domestic, nurseries and local councils.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Forest Growing and Management

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare cuttings	1.1 Interpret and check work order with appropriate personnel, if required 1.2 Select and check equipment for operational effectiveness, appropriate to work requirements and according to manufacturer recommendations

ELEMENTS	PERFORMANCE CRITERIA
	1.3 Prepare the parent plant and apply a suitable method to take the cutting appropriate to the species 1.4 Identify and provide correct conditioning and storage procedures appropriate to species requirements to maintain maximum viability of cuttings
2. Sort and select cuttings	2.1 Identify and follow organisational hygiene practices and procedures to maintain a contamination-free work area 2.2 Undertake work using established safe operating practices in line with workplace procedures and environmental requirements 2.3 Visually assess and select cuttings for propagation in line with work order requirements 2.4 Dispose of discarded cutting material in line with workplace waste disposal guidelines and organisational requirements.
3. Graft cuttings on to mature plant	3.1 Prepare mature plant for grafting and apply pre-planting treatment using methods suitable to the species 3.2 Use handling methods that prevent damage to cuttings 3.3 Check grafting type is appropriate to species type and apply identifying labels in line with workplace procedures 3.4 Provide and maintain nutrients and growing environment for grafted cuttings appropriate to the species requirements 3.5 Take remedial action as required to control pests and diseases in line with specified planting program 3.6 Record and report grafting process to the appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	- measure quantities of nutrients appropriate to cuttings - estimate timeframes appropriate to graft cutting processes
Oral communication skills to:	- ask questions to clarify instructions - explain routine procedures to others
Reading skills to:	read and follow information on equipment and in workplace procedure manuals on safety and environmental requirements when grafting cuttings

	• read and interpret information from tables and charts • read and interpret safety instructions in relation to using nutrients
Writing skills to:	• label grafted cuttings legibly and accurately with correct species name • complete factual reports on grafting process
Problem solving skills to:	• use and maintain equipment and tools for grafting cuttings • identify and apply different workplace requirements to plant species in graft cutting and storage.

Range of Conditions

Not Applicable

Unit Mapping Information

FPIFGM2212B Graft cuttings.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPFGM2212 Graft cuttings

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1	Replaces equivalent unit FPIFGM2212B Graft cuttings, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

- A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:
- use appropriate grafting tools and equipment, including hand-held tools, a grafting or budding knife, secateurs and grafting tape
- maintain a hygienic work environment, when grafting cuttings
- use appropriate methods and techniques to graft cuttings onto a mature plant
- maintain a growing environment suitable to the plant species, when grafting cuttings
- apply nutrients, chemicals, fertilizers and organic material to grafted cuttings
- apply remedial treatments to plants, including removal of infected material and treatment with chemicals
- dispose of discarded cutting material by recycling or sending to landfill
- record and report grafting process according to workplace procedures using a manual, computer based or other appropriate communication system
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Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- types and species of cuttings and suitable grafting methods and storage
- grafting methods and the type of equipment used for each method
- pre-planting treatments to prepare for grafting
- water and nutrient requirements for cuttings, including chemicals, fertilisers and organic material
- techniques of taking cuttings

- conditioning and storage requirements for cuttings
- impact of different growing environments on grafted cuttings including:
 - heat
 - light
 - humidity
 - wind
 - sun
 - moisture
 - topography
 - rainfall
- established workplace communication channels and protocols
- problem identification and resolution strategies, and common fault finding techniques in relation to grafting cuttings
- types of tools and equipment used in grafting cuttings, including hand-held tools, including a grafting or budding knife, secateurs and grafting tape and procedures for their safe use and maintenance
- remedial treatment on grafted cuttings, including the removal of infected material and treatment with chemicals
- mathematical procedures for estimating and measuring, including calculating time to complete tasks and measuring quantities of nutrients
- procedures for recording and reporting workplace information.
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Assessment Conditions

The following resources must be made available:

- materials and equipment relevant to undertaking work applicable to this unit including:
 - specifications and work instructions
 - different plant species and cuttings
 - growing environments
 - nutrients including chemicals, fertilisers and organic material
 - equipment hand-held tools, a grafting or budding knife, secateurs and grafting tape
 - storage facilities for cuttings
- personal protective equipment suitable for grafting cuttings
- safety equipment
- specifications and work instructions
- relevant personnel for the purposes of communicating information
- organisational procedures for controlling animal pests

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence

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