



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **FPIFGM2212B Graft cuttings**

**Release: 1**

## **FPIFGM2212B Graft cuttings**

### **Modification History**

Not Applicable

### **Unit Descriptor**

#### **Unit descriptor**

This unit describes the outcomes required to prepare and graft cuttings on to a mature plant. The unit includes application of pre-planting treatments and nutritional care

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

This unit replaces FPIFGM2212A Graft cuttings

### **Application of the Unit**

#### **Application of the unit**

The unit involves grafting cuttings in a variety of work settings, including:

- forest environments
- farms
- agriculture
- workshops
- domestic
- nurseries
- local councils

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

### **Licensing/Regulatory Information**

Refer to Unit Descriptor

## Pre-Requisites

Not Applicable

## Employability Skills Information

**Employability skills**          This unit contains employability skills

## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare cuttings	<p>1.1. Applicable <b>occupational health and safety</b> (OHS), <b>environmental</b>, <b>legislative</b> and <b>organisational requirements</b> relevant to grafting cuttings are identified and followed</p> <p>1.2. Site <b>environmental protection measures</b> are identified and adhered to in line with relevant legislation and regulations</p> <p>1.3. Work order is reviewed and checked as required with <b>appropriate personnel</b></p> <p>1.4. <b>Equipment</b> appropriate to work requirements is selected and checked for operational effectiveness in line with manufacturer recommendations</p> <p>1.5. Parent plant is prepared and suitable method is applied to take the cutting appropriate to the species</p> <p>1.6. Correct conditioning and storage procedures appropriate to species requirements are identified and provided to maintain maximum viability of cuttings</p> <p>1.7. <b>Communication</b> with others is established and maintained in line with OHS requirements</p>
2. Sort and select cuttings	<p>2.1. Organisational hygiene practices and procedures are identified and followed to maintain a contamination-free work area</p> <p>2.2. Work is undertaken using established safe operating practices in line with workplace procedures and environmental requirements</p> <p>2.3. Cuttings are visually assessed and selected for propagation in line with work order requirements</p> <p>2.4. Discarded cutting material is <b>disposed of</b> in line with workplace waste disposal guidelines and organisational requirements</p>
3. Graft cuttings on to mature plant	<p>3.1. Mature plant is prepared for grafting and pre-planting treatment is applied using methods suitable to the species</p> <p>3.2. Handling methods are used that prevent damage to cuttings</p> <p>3.3. Grafting type is checked as appropriate to species type and identifying labels are applied in line with workplace procedures</p> <p>3.4. <b>Nutrients</b> and <b>growing environment</b> for grafted cuttings are provided and maintained appropriate to the species requirements</p>

**ELEMENT****PERFORMANCE CRITERIA**

3.5. *Remedial action* is taken as required to control pests and diseases in line with specified planting program

3.6. Grafting process is *recorded and reported* to the appropriate personnel

## Required Skills and Knowledge

### REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit.

#### Required skills

- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; take cuttings using suitable methods; prepare mature plants for grafting; prepare and apply accurate and clear labels; maintain a clean and hygienic work environment to prevent contamination
- Communication skills sufficient to use appropriate communication and interpersonal techniques with colleagues and others, including landholders and internal and external bodies and groups
- Literacy skills sufficient to read and interpret information from tables and charts; locate, record and report information
- Numeracy skills sufficient to measure, estimate and calculate time required to complete a task
- Problem solving skills sufficient to review and identify work requirements; identify problems and equipment faults; demonstrate appropriate response procedures

#### Required knowledge

- Applicable commonwealth, state or territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for grafting cuttings
- Environmental protection requirements, including the safe disposal of waste material and the safe use and storage of chemicals
- Organisational and site standards, requirements, policies and procedures for grafting cuttings
- Environmental risks and hazards
- Types and species of cuttings
- Grafting methods
- Pre-planting treatments
- Water and nutrient requirements for cuttings
- Techniques of taking cuttings
- Conditioning and storage requirements for cuttings

**REQUIRED SKILLS AND KNOWLEDGE**

- Established communication channels and protocols
- Problem identification and resolution strategies, and common fault finding techniques
- Types of tools and equipment, and procedures for their safe use and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks
- Procedures for recording and reporting workplace information

# 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

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently take cuttings and prepare mature plants for grafting, graft cuttings, and maintain nutrient and growing environment requirements suitable to the plant species

### 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, and satisfy, all of the requirements of the elements of this unit and include demonstration of:

- following applicable commonwealth, state or territory legislative and regulatory requirements and codes of practice relevant to grafting cuttings
- following organisational policies and procedures relevant to grafting cuttings
- using appropriate tools and equipment and maintaining a hygienic work environment
- using appropriate methods and techniques to graft cuttings onto a mature plant and maintaining a growing environment suitable to the plant species
- applying remedial treatments to plants as required

### Context of and specific resources for assessment

- Competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to follow relevant regulatory or Australian Standards requirements
- The following resources should be made available:
  - workplace location or simulated workplace
  - materials and equipment relevant to undertaking work applicable to this unit
  - specifications and work instructions

## EVIDENCE GUIDE

### Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of required knowledge
- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- Assessment methods must confirm the ability to access and correctly interpret and apply the required knowledge
- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role

## Range Statement

### RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.



## RANGE STATEMENT

### **OHS requirements:**

are to be in line with applicable commonwealth, state or territory legislation and regulations, and organisational safety policies and procedures, and may include:

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- fatigue management
- elimination of hazardous materials and substances
- safe forest practices, including required actions relating to forest fire
- manual handling including shifting, lifting and carrying
- legislation
- organisational policies and procedures
- workplace practices

### **Environmental requirements** may include:

### **Legislative requirements:**

are to be in line with applicable commonwealth, state or territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care

### **Organisational requirements** may include:

- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes

## RANGE STATEMENT

	and standards
	<ul style="list-style-type: none"><li>• OHS, emergency and evacuation procedures</li><li>• ethical standards</li><li>• recording and reporting requirements</li><li>• equipment use, maintenance and storage requirements</li><li>• environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)</li></ul>
<b>Environmental protection measures</b> may include:	<ul style="list-style-type: none"><li>• ground growth</li><li>• canopy</li><li>• general forest lean</li><li>• wind speed and direction</li><li>• fallen trees</li><li>• density of trees</li><li>• ground slope</li><li>• soil and water protection</li><li>• ground hazards and obstacles</li><li>• contingencies for modifying operations during wet or other adverse weather conditions</li><li>• hygiene of the area</li><li>• relevant commonwealth, state or territory, and local legislation and regulations</li></ul>
<b>Appropriate personnel</b> may include:	<ul style="list-style-type: none"><li>• supervisors</li><li>• clients</li><li>• colleagues</li><li>• line management</li></ul>
<b>Equipment</b> may include:	<ul style="list-style-type: none"><li>• hand-held tools, such as grafting or budding knife</li><li>• secateurs</li><li>• grafting tape</li></ul>
Communication may include:	<ul style="list-style-type: none"><li>• verbal and non-verbal language</li><li>• constructive feedback</li><li>• active listening</li><li>• questioning to clarify and confirm understanding</li><li>• use of positive, confident and cooperative language</li><li>• use of language and concepts appropriate to individual social and cultural differences</li><li>• control of tone of voice</li></ul>

## RANGE STATEMENT

**Disposing of** may include:

- recycling discarded cutting material
- sending discarded cutting material that cannot be recycled to landfill

**Nutrients** may include:

- chemicals
- fertilisers
- organic material

**Growing environment** may include:

- heat
- light
- humidity
- wind
- sun
- moisture
- topography
- rainfall

**Remedial action** may include:

- removal of infected material
- treatment with chemicals

**Records and reports** may include:

- techniques used
- resources used
- timeframes
- results
- recommendations

and may be:

- manual
- a computer-based system
- other appropriate organisational communication system

## Unit Sector(s)

Not Applicable

## Competency field

**Competency field**

Forest Growing and Management