



Australian Government

FWPNSY3001 Graft nursery stock for planting in seed orchard

Release: 1

FWPNSY3001 Graft nursery stock for planting in seed orchard

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to prepare and graft nursery stock onto selected root stock as part of forest nursery operations.

The unit applies to individuals who are involved in grafting as part of forestry operations.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Forest Nursery Production (NSY)

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.</i>
1. Prepare for grafting	1.1 Determine job requirements from work order or instruction, and where required seek clarification from appropriate personnel 1.2 Confirm safety and environmental requirements, including use of personal protective equipment, for the task according to workplace procedures 1.3 Identify, assess and take actions to mitigate risks and hazards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	associated with grafting operations 1.4 Identify emergency and evacuation procedures to follow in the event of an incident or accident 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Select tools, equipment and materials for grafting operations, and check for serviceability according to workplace procedures
2. Collect material for potential scion wood	2.1 Identify and select the individual tree to be cloned according to workplace procedures 2.2 Identify the correct time and method for collecting scion wood 2.3 Cut material for potential scion wood selection using appropriate equipment 2.4 Apply appropriate labelling, storage, treatment and transport methods to maintain maximum viability of the material
3. Select scion wood	3.1 Follow workplace hygiene practices and procedures to maintain a contamination-free work area 3.2 Undertake work using established safe operating practices according to workplace procedures and environmental requirements 3.3 Visually assess collected material and select scion wood for propagation according to work order requirements 3.4 Dispose of discarded cutting material according to workplace procedures
4. Graft scion wood onto selected root stock	4.1 Select and prepare root stock for grafting 4.2 Use handling methods that prevent damage to root stock and scion wood 4.3 Select grafting type that is appropriate to species 4.4 Apply grafting method and attach identifying labels to grafted plant according to workplace procedures
5. Apply post-grafting management techniques	5.1 Provide and maintain nutrients and growing environment for grafted plant appropriate to the species requirements 5.2 Take remedial action as required to control pests and diseases according to specified planting program 5.3 Record and report grafting process to the appropriate personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Extract routine information from industry guides and standard references on grafting techniques
Writing	Complete labels legibly and accurately with correct species name
Oral communication	- Ask open and closed questions and use active listening techniques to clarify contents of work orders - Provide oral reports on grafting activities
Numeracy	- Measure quantities of nutrients appropriate for grafted plant - Estimate timeframes appropriate to grafting processes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPNSY3001 Graft nursery stock for planting in seed orchard	FWPFGM2212 Graft cuttings	Revised unit title Updated all unit components	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPNSY3001 Graft nursery stock for planting in seed orchard

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has carried out two separate grafting operations on plants of different species and has applied appropriate post-grafting management techniques for both plants.

In undertaking this activity, the individual has:

- complied with safety and environmental requirements, including use of personal protective equipment (PPE) and safe disposal of waste materials
- selected tools, equipment and materials for grafting operations and checked for serviceability
- collected material for potential scion wood and implemented workplace procedures to maintain viability of the material
- appraised and selected scion wood for propagation
- grafted scion wood onto selected root stock
- applied post-grafting management techniques.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- grafting methods
- types of tools and equipment used in grafting operations, including hand-held tools, including a grafting or budding knife, secateurs and grafting tape, and procedures for their safe use and maintenance
- process for collecting material for potential scion wood
- process for selection of scion wood
- techniques for grafting scion wood onto selected root stock
- post-grafting management techniques
- pre-planting treatments to prepare for grafting

- water and nutrient requirements for grafted plants
- conditioning and storage requirements for grafted plants
- impact of different growing environments on grafted plant, including:
 - heat
 - light
 - humidity
 - moisture
- procedures for safe use, handling, storage and transport of chemicals
- problem identification and resolution strategies, and common fault finding techniques in relation to grafting operations
- remedial treatment on grafted plants, including pest and disease control methods
- procedures for recording and reporting workplace information.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest or wood products work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - commercial quantity of trees, scion wood and root stock for grafting operations
 - tools, equipment, materials and storage facilities used in grafting operations
 - PPE suitable for grafting operations
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to grafting operations
 - workplace procedures for grafting operations.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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