



Australian Government

FWPFGM2204 Plant trees mechanically

Release: 1

FWPFGM2204 Plant trees mechanically

Modification History

Release	Comment
1	Replaces equivalent unit FPIFGM2204B Plant trees mechanically, 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 select suitable tree stock and plant trees mechanically. Work is completed in a forest environment setting.

The unit applies to Forestry worker, Arboriculture worker, Farm forestry worker, Nursery worker

Plantation establishment worker, Plantation forest officer, Silviculturist

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 for planting operations	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate personal protective and other equipment and

ELEMENTS	PERFORMANCE CRITERIA
	check for operational effectiveness. 1.3 Obtain and prepare planting stock in line with work order
2. Prepare for planting	2.1 Assess plant site for suitability and prepare in line with work order. 2.2 Select stock quantity from tree stock in line with production target and stock quality. 2.3 Select work methods and patterns to suit tree type, plant site and type of equipment. 2.4 Identify and resolve site or equipment hazards in line with organisational safety procedures.
3. Plant forest trees	3.1 Check planting machine operational effectiveness prior to planting and report faults if identified. 3.2 Use planting machine to plant tree stock in line with production target, manufacturer's instructions and organisational safety and risk minimisation procedures. 3.3 Identify and dispose of unsuitable tree stock in line with environmental protection practices. 3.4 Maintain and store equipment and remaining tree stock in line with organisational procedures.

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:	complete routine calculations involving depth, width and spacing in to plant trees.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of work orders.
Reading skills to:	- interpret: - workplace health and safety and other organisational procedures - work orders - manufacturers' instructions.

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Range of Conditions

Not Applicable

Unit Mapping Information

FPIFGM2204B Plant trees mechanically

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 FWPFGM2204 Plant trees mechanically

Modification History

Release	Comment
Release1	Replaces equivalent unit FPIFGM2204B Plant trees mechanically, 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:

- follow work order to plant trees mechanically, according to specific work order requirements
- assess the site and plant tree stock mechanically by:
 - checking for appropriate atmosphere, moisture content and seasonal suitability for planting
 - ensuring appropriate spacing and growth suitability for each tree
 - handling tree stock minimally
- use the following tools and equipment safely and efficiently when handling tree stock:
 - planting machine
 - tube planter
 - planting frame
 - harness
 - auger
- identify and resolve the following problems when planting tree stock:
 - site or equipment issues:
 - equipment faults and malfunctions

- environmental safety hazards
- unsuitable planting stock affected by:
 - pests
 - disease
 - nutritional deficiencies.
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Knowledge Evidence

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

- typical hazards present in forest planting situations:
 - slope
 - water
 - rock
 - undergrowth
 - slash
 - depressions and holes
 - falling or fallen branches
- typical stock defects and visual characteristics:
 - pests
 - diseases
 - nutritional deficiencies
- factors to consider for planting trees and how these affect quality and characteristics of grown trees:
 - planting depth
 - spacing and row positioning of seedlings
 - root placement
- purpose, features, operation and maintenance of tree planting machines
- organisational procedures specific to planting trees mechanically
 - workplace health and safety with particular emphasis on equipment lock-out, risk control and use of personal protective equipment
 - communication reporting lines.
- environmental protection practices for forest settings:
 - cleaning plant, tools and equipment
 - disposing of and recycling waste
 - returning the environment to its original or near to original condition on completion of activity
- safe manual handling techniques for operating in forest settings, specifically those for:
 - shifting
 - lifting
 - carrying tree stock

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Assessment Conditions

The following resources must be made available:

- planting machine
- tube planter
- planting frames
- harnesses
- augers
- personal protective equipment suitable for planting trees
- commercial quantities of tree stock for planting
- work order with specific instructions for types and quantities of trees to be planted
- relevant personnel for the purposes of communicating information
- organisational procedures for planting trees mechanically.

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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Links

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