



Australian Government

FWPFGM4203 Design plantations

Release: 1

FWPFGM4203 Design plantations

Modification History

Release	Comment
1	Replaces equivalent unit FPIFGM4203C Design plantations, 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 design a plantation or monoculture. The unit also applies to an area that is to be used for multiple uses, such as farm forestry.

The unit applies to job roles including Arboriculture Supervisor, Farm Forestry Supervisor, Forestry Supervisor, Forestry Operations Supervisor, Harvesting Supervisor, Harvesting Team Leader, Propagation and Stand Health Supervisor and Tree Farm Supervisor.

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

<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 plantation design	1.1 Assess site and identify site environmental protection measures. 1.2 Review and analyse relevant plans to assess impacts on proposed plantation. 1.3 Consult with stakeholders and obtain input into the design for the site. 1.4 Review organisational maps, plans and strategies and how they

	relate to plantation requirements. 1.5 Develop measurable performance indicators, specifications and targets for the plantation.
2. Design components of plantation	2.1 Arrange surveys and determine species tolerances for the plantation site. 2.2 Develop plan for site preparation. 2.3 Develop design components and obtain approvals. 2.4 Communicate design plan and performance indicators to appropriate personnel.
3. Review plantation design	3.1 Assess plantation data and documentation against plans and adjacent plantations 3.2 Prepare recommendations and design improvements. 3.3 Record and report on plantation design processes.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Not Applicable

Unit Mapping Information

FPIFGM4203C Design plantation

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 FWPFGM4203 Design plantations

Modification History

Release	Comment
1	Replaces equivalent unit FPIFGM4203C Design plantations, 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:

- produce designs for plantations that comply with commonwealth, state or territory or local government legislative and regulatory requirements
- follow organisational policies and procedures relevant to designing plantations
- interpret aerial photographs and maps
- design a plantation using consultative processes with colleagues and stakeholders to obtain inputs, and ensure efficient use of resources
- design a plantation that meets specified requirements
- review a plantation design against determined performance indicators, specifications and targets
- develop recommendations for design improvements.
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Knowledge Evidence

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

- commonwealth, state or territory or local government legislative and regulatory requirements and codes of practice relevant to designing plantations
- relevant species characteristics and selection information including:
 - appropriate species
 - provenance
 - distribution and hardiness of trees to be sown or planted to suit the area to be planted

- factors relevant to an assessment of the area including:
 - soil types
 - site rainfall characteristics
 - understory species
 - canopy
 - general forest lean
 - wind speed and direction
 - fallen trees
 - retained vegetation
 - density of trees
 - ground slope
 - soil and water protection
 - ground hazards and obstacles
 - contingencies for modifying operations during wet or other adverse weather conditions
 - hygiene of the area
 - relevant commonwealth, state or territory, and local legislation and regulations.
- plantation design components including:
 - roads
 - fences
 - drainage channels
 - forest area boundaries
- environmental protection requirements relevant to plantation design
- organisational policies and procedures for designing plantations including the following:
 - tending plans
 - harvesting plans
 - organisational marketing and strategic plans
 - plans or regulations relating to chemical use and environmental requirements.
- environmental risks and hazards in the area of the proposed site
- common diseases, pests and nutritional deficiencies that affect plantations
- the principles of good design for plantations.

Assessment Conditions

The following resources must be made available:

- requirements for a plantation design
- PPE suitable for designing plantations
- Organisational policies and procedures relevant to designing plantations
- Relevant parties for the purposes of consulting and communicating

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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