



Australian Government

FWPFGM4205 Monitor regeneration rates

Release: 1

FWPFGM4205 Monitor regeneration rates

Modification History

Release	Comment
1	Replaces equivalent unit FPIFGM4205B Monitor regeneration rates, 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 monitor and coordinate the assessment of new plant stocks within a forestry area. The unit includes the assessment of germination, survival, regeneration and basal area surveys.

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 monitoring	1.1 Determine frequency of assessment for particular forest area, and calculate size of sample area from inventory programs, budgets and organisational guidelines. 1.2 Research and record types of regeneration for the location to be assessed. 1.3 Select methods of measurement of regeneration measurement

	according to the forest management plan. 1.4 Identify and follow site environmental protection measures in the course of the monitoring
2. Implement assessment of regeneration rates	2.1 Select method of assessment according to the forest type, and local, environmental and organisational guidelines. 2.2 Coordinate people, materials and equipment for the assessment. 2.3 Develop a schedule for the assessment in conjunction with other relevant forest operations personnel. 2.4 Obtain necessary permits or licences required for the assessment. 2.5 Direct personnel undertake the assessment and collect the data on regeneration rates. 2.6 Interpret, translate and report on data retrieved from the assessment.
3. Monitor and review assessment	3.1 Ensure compliance with environmental protection measures, relevant legislation and regulations. 3.2 Communicate with operational staff and contractors during the assessment phase to ensure smooth operation and progress 3.3 Monitor and review operational activities and consult operational staff and contractors for potential improvements 3.4 Review assessment method for potential improvements. 3.5 Record and report on assessment results according to organisational procedures.

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

FPIFGM4205B Monitor regeneration rates

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 FWPFGM4205 Monitor regeneration rates

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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 organisational policies and procedures relevant to monitoring regeneration rates
- accurately and safely monitor regeneration in a sample area
- coordinate people, resources and equipment for the efficient monitoring of regeneration
- identify methods of improvement for the monitoring of regeneration
- accurately interpret data on regeneration
- record and report on the outcomes of monitoring regeneration in a forest.
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Knowledge Evidence

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

- organisational and site standards, requirements, policies and procedures for monitoring regeneration rates
- environmental risks and hazards in a forest setting
- types and rates of regeneration of the following
 - seeding
 - seedlings
 - coppice
 - standard sprouts
- assessment techniques for regeneration rates, including

- monitoring germination and survival rates
- observing the effects of browsing, the distribution of new growth in square metres and regeneration rates
- calculating basal areas
- types of tools, and equipment used for measuring regeneration in a forest, and procedures for their safe use and maintenance.
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Assessment Conditions

The following resources must be made available:

- a forest area that is undergoing regeneration
- organisational policies and procedures relevant to monitoring regeneration rates
- relevant personnel for the purposes of communicating information
- PPE suitable to monitor regeneration rates.

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.

Links

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