



Australian Government

FWPSIL4007 Plan for and coordinate a regeneration rate assessment

Release: 1

FWPSIL4007 Plan for and coordinate a regeneration rate assessment

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 outcomes required to plan and coordinate the implementation and monitoring of a regeneration assessment within a forestry area.

The unit applies to individuals involved in planning and supervising a regeneration rate assessment 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

Silviculture (SIL)

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 regeneration assessment	1.1 Identify regeneration activities undertaken at site to be assessed 1.2 Determine frequency of assessment activities and calculate size of sample area, taking into account inventory programs, budgets and workplace guidelines

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Select regeneration measurement method according to the forest type, environment protection requirements, hazards and risk analysis outcomes, and workplace procedures 1.4 Coordinate personnel, materials and equipment required for the assessment 1.5 Develop a schedule for the assessment in conjunction with other relevant forest operations personnel 1.6 Obtain necessary permits or licences required for the assessment
2. Coordinate implementation and monitoring of regeneration assessment	2.1 Direct personnel undertaking the regeneration assessment 2.2 Coordinate the collection of data on regeneration rates 2.3 Ensure personnel engaged in assessment and monitoring activities comply with environmental, legislative and workplace requirements 2.4 Communicate with operational staff and contractors during the assessment and monitoring activities 2.5 Monitor and review assessment and monitoring activities, and consult operational staff and contractors for potential improvements 2.6 Collate and interpret regeneration data
3. Report on assessment outcomes	3.1 Record and report on assessment outcomes according to workplace procedures 3.2 Review assessment method for potential improvements

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	Interpret familiar and detailed organisational policies and procedures and complex documents such as forest management plans
Writing	Produce detailed reports on the outcomes of the assessment of new plant stocks within forestry areas

Skill	Description
Oral communication	Ask open and closed questions and use active listening techniques to gather information related to the monitoring of regenerated areas
Numeracy	Interpret complex numerical data relating to germination, survival and regeneration rates

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSIL4007 Plan for and coordinate a regeneration rate assessment	FWPFGM4205 Monitor regeneration rates	New title Revised Elements and Performance Criteria Revised Performance Evidence and Knowledge Evidence Revised Assessment Conditions in line with requirements of Standards for Training Packages	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 FWPSIL4007 Plan for and coordinate a regeneration rate assessment

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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 planned, coordinated the implementation and monitoring and reported on the outcomes of one regeneration rate assessment within a forestry area.

In undertaking this activity, the individual has:

- followed workplace policies and procedures relevant to scheduling and implementing the regeneration rate assessment
- coordinated people, materials and equipment required for the regeneration assessment
- coordinated regeneration monitoring in a sample area
- accurately interpreted regeneration data
- ensured personnel and contractors engaged in implementation and monitoring activities complied with environmental, legislative and workplace requirements
- identified ways of improving future regeneration rate assessments
- recorded and reported the outcomes of the regeneration rate assessment.

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:

- workplace and site standards, requirements, policies and procedures for monitoring regeneration rates
- risks and hazards in a forest setting
- environmental and legislative requirements associated with regeneration rate assessments
- 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.

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 work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - a forest area that is undergoing regeneration
- specifications:
 - workplace safety and environmental policies and procedures applicable to forestry operations
 - workplace policies and procedures relevant to monitoring regeneration activities.

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

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