



Australian Government

FWPSIL4002 Plan for and coordinate thinning operations in a native forest or plantation

Release: 1

FWPSIL4002 Plan for and coordinate thinning operations in a native forest or plantation

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 plan, coordinate and monitor the implementation of thinning operations in a native forest or plantation.

The unit applies to individuals whose work involves planning and coordinating the implementation of thinning operations in a native forest or plantation.

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. Plan thinning operations	1.1 Identify stand to be thinned and confirm details of stand health and measurements provided by the planning team 1.2 Identify sample area and measure growth 1.3 Establish level of overwood treatment, taking account of habitat

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and seed tree considerations 1.4 Select thinning method according to workplace procedures 1.5 Document thinning plan, including resource requirements, thinning method, risk analysis and costs, and communicate to appropriate personnel 1.6 Seek and obtain necessary approvals for thinning plan
2. Coordinate and monitor implementation of thinning operations	2.1 Coordinate and schedule personnel, materials and equipment required for thinning operation 2.2 Communicate thinning plan to operational personnel to ensure safety and effective implementation of thinning plan 2.3 Confirm tree marking prior to treatment according to workplace procedures 2.4 Identify monitoring points according to plan and workplace procedures 2.5 Monitor thinning operations to ensure compliance with production, quality, safety and environmental requirements 2.6 Adjust thinning activities, as required, to meet site conditions, ensure effective and efficient work and minimise damage to stand
3. Review and report on thinning operations	3.1 Assess and evaluate data from thinning operations to confirm techniques, methodologies and costs are consistent with plan 3.2 Identify and document issues and impediments to thinning activities and program costs 3.3 Review thinning operation and make recommendations to improve future thinning operations 3.4 Record and report outcomes of thinning operation to 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
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Skill	Description
Reading	Extract information from industry guides and standard references on planning and coordinating thinning operations
Writing	Prepare written reports for different audiences on thinning operations
Oral communication	Use information and persuasive language in conversations and oral presentations to gain approvals for thinning activities
Numeracy	Itemise and calculate total cost of thinning operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSIL4002 Plan for and coordinate thinning operations in a native forest or plantation	FWPFGM3206 Plan and implement non-commercial thinning operations	Reworded title Updated Application Statement Reworded Elements Updated Performance Criteria, Performance Evidence and Knowledge Evidence Updated Foundation Skills and Assessment Conditions	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 FWPSIL4002 Plan for and coordinate thinning operations in a native forest or plantation

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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 and monitored the implementation of one thinning operation in one of the following types of forested areas:

- native forest
- plantation.

In undertaking this activity, the individual has:

- planned and coordinated the implementation of a thinning operation to achieve one or more of the following:
 - maintain stand health
 - improve productivity and long-term sustainability
 - provide for end product mix requirements
 - manage notifiable weeds
- determined and scheduled personnel, equipment and materials required for thinning operation
- communicated with and supervised operational personnel involved in thinning activities
- monitored thinning operations to ensure compliance with production, quality, safety and environmental requirements
- reviewed and reported on outcomes of thinning operations.

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:

- purpose of thinning operations:
 - maintain the health of the stand
 - improve productivity and long-term sustainability
 - provide for end product mix requirements

- manage notifiable weeds
- reduce fire risk and disease
- regulate growth rate
- reduce competition in root and crown
- workplace procedures for planning and implementing thinning operations
- environmental protection requirements relevant to planning and implementing thinning operations
- methods and products used for thinning operations, including:
 - mechanical
 - chemical
- measurements relevant to thinning operations:
 - height
 - girth
 - number
 - spread
- processes for managing risks and hazards associated with thinning operations
- safe handling, use, transport and storage of chemicals
- relevant biology and stand dynamics for the species
- common diseases, pests and nutritional deficiencies for the species being thinned
- common weed and herbicide interactions
- monitoring points:
 - time based
 - frequency based
 - stream monitoring
 - mechanical damage to trees
- types, safe use and maintenance of tools and equipment used for thinning operations
- authorisations and approvals processes, including:
 - permits
 - approvals
 - licenses relating to neighbouring sites or properties
 - hours of operation
 - use and application of chemicals
- 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 work environment or an environment that accurately represents workplace conditions

- resources, equipment and materials:
 - forest or plantation stand to be thinned
 - personnel to undertake thinning operations
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to thinning operations
 - workplace procedures for thinning 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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