



Australian Government

FWPSIL3001 Apply sustainable silviculture treatments

Release: 1

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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 assess tree condition and select and apply sustainable silviculture treatments to meet environmental and production requirements in plantation and native forest settings.

The unit applies to individuals who are involved in applying sustainable silviculture treatments 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 silvicultural work	1.1 Determine job requirements from work order or instruction, and where required seek clarification from appropriate personnel 1.2 Confirm safety and environmental requirements, including use of personal protective equipment, for the task according to workplace procedures

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 Identify, assess and take actions to mitigate risks and hazards associated with silviculture operations 1.4 Identify emergency and evacuation procedures to follow in the event of an emergency 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Select tools, equipment and materials and check for serviceability according to workplace procedures 1.7 Review regulatory requirements and sustainable forestry principles that inform the selection of silviculture treatments 1.8 Identify target species according to approved forest operational plan and workplace procedures
2. Assess tree condition	2.1 Select and use appropriate techniques and tools to measure tree and stand height 2.2 Calculate basal area and assess tree dominance and crown vigour using an approved industry process 2.3 Determine and record standing tree defects 2.4 Identify and mark merchantable trees according to workplace procedures
3. Apply silviculture treatment	3.1 Calculate and apply tree retention and stocking criteria according to operational plan 3.2 Select sustainable silviculture treatment to meet environmental and production requirements 3.3 Identify situations requiring specialist advice, and seek assistance as required 3.4 Apply selected sustainable silviculture treatment according to workplace procedures
4. Monitor silviculture work practices	4.1 Monitor and maintain sustainable silviculture related work practices 4.2 Identify and respond to changed conditions in the operational area by adjusting silviculture related work practices 4.3 Assess need to implement soil conservation and erosion mitigation works to maintain or restore site and habitats 4.4 Identify and report non-compliant work practices to appropriate

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	personnel 4.5 Identify improved work practices and recommend improvements to silviculture operations
5. Maintain records	5.1 Revise and update forest operational plan and workplace procedures as required 5.2 Record and report silviculture activities 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
Reading	Extract information from complex texts on sustainable silviculture principles and treatments
Writing	Complete workplace forms using required format, industry terminology and structure
Oral communication	Employ active listening, questioning and effective verbal and non-verbal communication to communicate with crew members about compliant and non-compliant work practices
Numeracy	Apply numerical skills to take measurements and calculate and interpret statistical data on tree condition

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSIL3001 Apply sustainable silviculture treatments	FWPCOT3255 Apply silvicultural principles	Reworded title Updated Application Statement Reworded Elements and Performance Criteria	Not equivalent

		Minor changes to Performance Evidence Updated Knowledge Evidence Updated Foundation Skills and Assessment Conditions	
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Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>