



Australian Government

FWPFOM5008 Contribute to and implement a silviculture regime for native forest

Release: 1

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Modification History

Release	Comments
Release 1	This version released with Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to select a silviculture regime consistent with native forest management objectives and contribute to the planning and implementation of the silviculture regime for native forest.

The unit applies to individuals who undertake forester or forestry field officer job roles in the forest industry.

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

Forest Operations Management (FOM)

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. Select silviculture regime consistent with native forest management objectives	1.1 Confirm native forest management objectives 1.2 Access sources of information required for making decisions on the choice of silviculture regime 1.3 Assess forest condition to help formulate silviculture practices

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	consistent with forest management objectives 1.4 Identify silviculture regime to achieve native forest management objectives
2. Plan silviculture operations	2.1 Plan harvest and regeneration prescriptions consistent with forest management objectives 2.2 Plan seed collection, preparation and sowing to meet stocking standards and forest management objectives 2.3 Define regeneration stocking standards and plan surveys for post-harvest monitoring 2.4 Plan browsing controls consistent with forest management objectives 2.5 Plan crop protection measures consistent with forest management objectives 2.6 Establish schedule for silviculture activities according to workplace procedures 2.7 Calculate cost of silviculture operations according to workplace procedures
3. Coordinate implementation of silviculture operations	3.1 Coordinate implementation of silviculture operations 3.2 Monitor staff and contractor compliance with prescriptions for silviculture operations 3.3 Identify and resolve incidents of non-compliances within scope of responsibility and workplace procedures 3.4 Report on implementation of silviculture operations to appropriate personnel
4. Monitor effectiveness of silviculture operations	4.1 Establish monitoring procedures for assessing effectiveness of silviculture operations 4.2 Analyse outcomes of surveys and reports on silviculture operations 4.3 Identify, plan and coordinate implementation of remedial treatments as required 4.4 Document outcomes of silviculture operations and report 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	Interpret complex written, technical information in source documents related to silviculture operations
Writing	Design, develop and revise strategic documents appropriate to audience and context
Oral communication	Use active listening and questioning techniques to convey and clarify information
Numeracy	Analyse and compare complex statistical information related to silviculture operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFOM5008 Contribute to and implement a silviculture regime for native forest	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

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 FWPFOM5008 Contribute to and implement a silviculture regime for native forest

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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 participated in the design, coordination and monitoring of a silviculture regime for one native forest stand.

In performing this activity, the individual has:

- confirmed native forest management objectives and sourced pertinent information to identify the silviculture regime
- prepared prescriptions, established schedules and calculated costs for at least three plantation silviculture operations from the following:
 - regeneration
 - harvesting
 - survey for post-harvest monitoring
 - seed collection, preparation and sawing for meeting regeneration stocking standards
 - browsing controls
 - crop protection
- confirmed contractual requirements for one native forest silviculture operation and monitored and reported on contractor compliance
- monitored effectiveness of one native forest silviculture operation and presented recommendations for future improvements.

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:

- native forest management objectives:
 - social
 - economic
 - environmental

- assessment of forest condition for selection of silviculture practices:
 - forest type
 - forest age structure
 - forest components and their condition
 - forest structure
 - wildlife habitat
 - forest generation
 - evidence of past disturbances (fire, logging) that may have influenced the growing stock condition
- types and characteristics of native forest silviculture regimes
- purpose of native forest silviculture regime:
 - support production of wood and non-wood products
 - water yield
 - creating ideal conditions for regeneration
 - providing habitat for wildlife
 - carbon sequestration
 - maintaining a diverse forest ecosystem
- components of silviculture regime:
 - management objectives
 - harvesting systems
 - regeneration treatment
 - monitoring and protection
- approaches to planning, implementing and monitoring native forest silviculture operations:
 - harvesting
 - thinning
 - regeneration
 - seed collection, preparation and sowing
 - stocking standards
 - surveys for post-harvest monitoring
 - browsing controls
 - crop protection measures – fire, wind
 - remedial treatments
- key elements of a prescription for forestry operations
- techniques for monitoring silviculture operations in native forests
- techniques for the design, implementation and analysis of outcomes of post-harvest surveys.

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 native forest stand
 - computing hardware and software for planning, implementing and monitoring silviculture operations
 - stand data required for silviculture operations
- specifications:
 - workplace policies and procedures regarding native forest silviculture operations.

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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