



Australian Government

FWPFOM5002 Contribute to and implement a forest roading operational plan

Release: 1

FWPFOM5002 Contribute to and implement a forest roading operational plan

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 contribute to the development and implementation of a forest roading operational plan.

The unit applies to individuals with responsibility for the development and implementation of forest roading operational plans.

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. Prepare forest roading operational plan	1.1 Review forest management plan and road development requirements 1.2 Obtain and assess logging and topography details and environmental management considerations

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 Review road location, design and construction requirements and analyse costs, benefits and impact on the forest 1.4 Review timeframe for use of the road and likely weather conditions and determine impact on road and track design and operational plans 1.5 Confirm scope of logging operations, including extraction methods, falling and recovery rates, type of logging equipment and delivery schedules, and determine impact on road and track design and operational plans 1.6 Consult with authorities and obtain approvals for road development 1.7 Liaise with and seek support from senior personnel during preparation of plan, as required 1.8 Produce draft plan according to workplace procedures 1.9 Forward draft plan to appropriate personnel and confirm further actions
2. Oversee implementation of forest roading operational plan	2.1 Brief supervisors on road and track design and operational plans 2.2 Monitor road construction and maintenance activities 2.3 Maintain communication with supervisors, operational staff, clients and contractors throughout maintenance activities to ensure smooth operations 2.4 Monitor compliance with environmental, safety and quality standards 2.5 Check that performance indicators, targets and specifications are being met and that process or methods are amended as required 2.6 Provide technical assistance to site personnel in constructing and maintaining roads and tracks
3. Review and report on implementation of road construction and maintenance plan	3.1 Analyse data and documentation from construction or maintenance activities, and measure performance against forest roading operational plan 3.2 Make recommendations for improvements and further work 3.3 Prepare reports on implementation of road construction and maintenance plan according to workplace procedures

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 industry guides and standard references
Writing	Complete detailed written reports on progress against road construction and maintenance plan
Oral communication	- Ask open and closed questions and use active listening techniques to clarify road construction and maintenance requirements - Engage with and influence stakeholders on matters related to road construction and maintenance
Numeracy	- Perform complex calculations related to road construction cost, earthworks, clearing, surveying and drainage - Interpret statistics and graphical information on production, safety and quality indicators

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFOM5002 Contribute to and implement a forest roading operational plan	FWPFGM5208 Manage road construction and maintenance	Updated unit title Updated Application, Performance Criteria, Performance Evidence and Knowledge Evidence Updated Assessment Conditions	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 FWPFOM5002 Contribute to and implement a forest roading operational plan

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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, under the supervision of a senior forester, the individual has developed one forest roading operational plan and overseen road construction.

In performing this activity, the individual has:

- confirmed requirements pertinent to forest roading operational planning and scope of logging operations
- consulted with appropriate personnel on draft forest roading operational plan
- coordinated forest roading operations and monitored compliance against performance indicators and specifications
- prepared recommendations for future improvements to planning and implementation of forest roading 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:

- workplace policies and procedures for managing road construction and maintenance
- environmental risks and hazards associated with road construction
- materials used for road construction and their properties, including:
 - road base
 - gravel
 - crushed rock
 - sand and bluestone
 - cords and pipes for water crossings
- logging operations and log extraction methods
- road construction and maintenance procedures
- principles of road design and development, including:

- control points
- required grades
- water crossing points and structures
- types of tools, plant and equipment used for road construction, 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 section of native forest or plantation for road construction or maintenance
- specifications:
 - maps, plans, regulations and other documentation relevant to the construction and maintenance of roads in a forestry setting
 - workplace safety and environmental policies and procedures applicable to road construction and maintenance
 - workplace policies and procedures relevant to managing road construction and maintenance.

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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