



Australian Government

FWPCOT4215 Plan for and coordinate road construction and maintenance

Release: 1

FWPCOT4215 Plan for and coordinate road construction and maintenance

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 for and coordinate road construction and maintenance activities, including heavy duty, all weather logging roads and unsurfaced earth roads, as part of forestry operations.

The unit applies to individuals with responsibility for planning and coordinating road construction and maintenance in 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

Common Technical (COT)

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 road construction and maintenance activities	1.1 Review work instructions and road construction/maintenance plan and seek clarification as required 1.2 Review workplace health and safety 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 road construction/maintenance 1.4 Identify and implement workplace environmental protection procedures according to workplace procedures and road construction/maintenance plan 1.5 Identify emergency plan procedures to follow in the event of an emergency 1.6 Confirm road location, design and construction requirements 1.7 Identify transport requirements, taking into account seasonal factors 1.8 Confirm personnel, equipment and material requirements for road construction/maintenance activities
2. Implement road construction	2.1 Brief site personnel on road and track construction plan 2.2 Coordinate and schedule personnel, material and equipment required for road construction activities 2.3 Plan operational procedures for road construction with site personnel according to workplace procedures, environment protection requirements and road construction/maintenance plan 2.4 Monitor construction of roads and tracks and report unexpected ground, water, vegetation or other environmental conditions to appropriate personnel 2.5 Maintain communication with operational staff, clients and contractors throughout maintenance activities to ensure smooth operations 2.6 Provide technical assistance to site personnel in preparing roads and tracks
3. Maintain roads	3.1 Brief site personnel on road and track maintenance activities 3.2 Coordinate personnel, materials, plant and equipment required for maintenance activities, taking seasonal weather conditions into consideration 3.3 Organise maintenance activities according to workplace procedures, environment protection requirements and road construction/maintenance plan 3.4 Maintain communication with operational staff, clients and contractors throughout maintenance activities to ensure smooth

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	operations
4. Monitor and review road construction and maintenance	4.1 Monitor road construction and maintenance activities according to workplace policy and road construction/maintenance plan 4.2 Check that workplace health and safety procedures are observed and site environmental conditions are adhered to throughout works 4.3 Check that performance indicators, targets and specifications are being met and that process or methods are amended as required 4.4 Record and report on road construction and maintenance activities

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 and annotate plans and drawings
Writing	Complete 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 - Respond to work-related questions from and give instructions to crew members
Numeracy	Interpret basic 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
FWPCOT4215 Plan	FWPFGM5208	Updated unit title	Not equivalent

for and coordinate road construction and maintenance	Manage road construction and maintenance	Updated Application, Performance Criteria, Performance Evidence and Knowledge Evidence Updated 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>

Assessment Requirements for FWPCOT4215 Plan for and coordinate road construction and maintenance

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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:

- prepared for, supervised and reported on one road construction activity based on an existing road construction and maintenance plan
- prepared for, supervised and reported on one road maintenance activity based on an existing road construction and maintenance plan.

For each of these activities, the individual has:

- confirmed road location and construction, transport and resources requirements
- coordinated people, resources and equipment
- planned operational procedures
- monitored and reported unexpected ground, water, vegetation or other environmental conditions
- maintained communication with operational staff, clients and contractors
- implemented workplace health and safety and environmental protection procedures.

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
- protection zones for natural, drainage, cultural and social features
- types, safe use and maintenance of plant, equipment and tools used in road construction and maintenance
- characteristics and techniques for construction of all-weather logging roads and unsurfaced earth roads
- materials used for road construction and their properties, including:

- road base
- gravel
- crushed rock
- sand and bluestone
- cords and pipes for water crossings
- principles of road design and development, including:
 - control points
 - required grades
 - water crossing points and structures.

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 and maintenance
 - plants, tools, materials and equipment for road construction and maintenance
 - work crew to supervise for road construction and 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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