



Australian Government

FWPCOT3221 Rehabilitate tracks, quarries and landings

Release: 1

FWPCOT3221 Rehabilitate tracks, quarries and landings

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3221B Rehabilitate tracks, quarries and landings, which was first released with FPI11 Forest and Forest Products Training Package Version 1. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to identify and plan for the rehabilitation requirements of tracks, quarries and landings and to conduct renovation and revegetation operations. The unit also includes the establishment of run-off and drainage channels.

The unit applies to those working in commercial harvesting operations, within a forest environment producing forest products.

The unit applies to Forestry technician, Forestry Operations supervisor, Mobile plant operator, Harvesting technician.

Licensing, legislative, regulatory, or certification requirements apply to this unit in some states & territories at the time of publication, and may differ according to jurisdiction

Pre-requisite Unit

Nil

Unit Sector

Forest Growing and Management

Harvesting and Haulage

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Identify rehabilitation requirements	1.1 Review work order for rehabilitation and clarify requirements with appropriate personnel.

	1.2 Prepare to work safely according to organisation and site requirements. 1.3 Obtain and review environmental, regulatory and legislative information relating to the rehabilitation. 1.4 Inspect site and identify specific rehabilitation and revegetation requirements and drainage.
2. Plan rehabilitation operations	2.1 Select appropriate equipment for work requirements and check for operational effectiveness and manufacturer recommendations. 2.2 Conduct a risk assessment and implement controls. 2.3 Determine sequence of rehabilitation operations to ensure that time is used efficiently and that suitable equipment is available for tasks. 2.4 Advise relevant personnel of impending rehabilitation and any disruptions that may occur. 2.5 Document the rehabilitation and revegetation according to organisational protocols
3. Implement repairs to tracks, quarries and landings	3.1 Operate equipment in line with manufacturer recommendations and monitor performance to ensure efficiency and safety of operations. 3.2 Remove and store any recoverable timber. 3.3 Remove and dispose of any debris according to site procedures. 3.4 Renovate tracks, quarries and landings according to rehabilitation plan, work order and site procedures. 3.5 Establish run-off and drainage channels to approximate natural drain lines. 3.6 Revegetate required areas, providing plants with optimal growing conditions. 3.7 Record and report renovation outcomes in line with site procedures.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	- estimate quantity or amount of materials required for the rehabilitation - estimate time for sequencing tasks and the total time for the
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	job.
Reading skills to:	interpret site requirements, environmental information and manufacturer's instructions.
Initiative and enterprise skills to:	find safe, cost-effective and environmentally friendly methods to perform rehabilitations.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3221B Rehabilitate tracks, quarries and landings

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT3221 Rehabilitate tracks, quarries and landings

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Release	Comment
1	Replaces equivalent unit FPICOT3221B Rehabilitate tracks, quarries and landings, which was first released with FPI11 Forest and Forest Products Training Package Version 1. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- plan to safely rehabilitate tracks, quarries and landings after harvesting operations that includes inspection of:
 - analysing the current state of the track, quarry or landing
 - identifying natural water flow and water courses
 - checking for recoverable logs and equipment
 - considering the impact of harvesting or transportation.
- and which includes consideration of:
 - ground slope and stability
 - damage to the environment
 - weather conditions
 - access to suitable equipment and other resources
 - safety
 - further damage that may result from renovations
 - waste disposal.
- safely and efficiently use one or more of the following items of equipment and tools appropriate to the task and according to manufacturer's instructions
 - dozer
 - front-end loader
 - skidder

- grader using bucket or blade attachments
- perform rehabilitation tasks that returns the environment to its original or near to original condition
- perform renovation which includes where required:
 - pulling out and removing construction materials
 - breaking up ramps and constructions
 - filling and ripping surfaces
 - breaking up and burying crushed rock, sand and other stabilising materials
 - spreading and compacting top soil over base materials
- establish run-off and drainage channels suitable to the site
- conduct revegetation with plants suited to the location
- manage the problems and risks associated with performing rehabilitation tasks.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- workplace requirements for performing the rehabilitation of tracks, quarries and landings
- environmental protection requirements, including the safe disposal of waste material
- problem identification and resolution strategies, and common fault finding techniques
- tools and equipment used for rehabilitation of tracks, quarries and landings, their suitability for different procedures, and their safe use and maintenance
- mathematical procedures for estimating and measuring tasks, time and resources, including calculating time to complete tasks
- procedures for recording and reporting workplace information
- water run-off patterns, soil types and erosion
- WHS practices including:
 - manual handling, including shifting, lifting and carrying
 - personal protective equipment and clothing
 - elimination of hazardous materials and substances
- plants suitable for revegetation
- techniques for managing environmental risks and hazards, including:
 - uneven and unstable ground
 - overhead and underground services
 - excavations
 - hazardous materials
 - traffic
 - insects and animals
 - fires.

Assessment Conditions

The following resources must be made available:

- tracks, quarries or landings requiring rehabilitation
- machinery and equipment necessary for the rehabilitation, and manufacturer's instructions for their use
 - dozer
 - front-end loader
 - skidder
 - grader using bucket or blade attachments
- personal protective equipment necessary for the rehabilitation
- workplace documentation

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

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