



Australian Government

FWPCOT4216 Plan for and coordinate construction of log landings and snig tracks

Release: 1

FWPCOT4216 Plan for and coordinate construction of log landings and snig tracks

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 the construction of log landings and snig tracks in a forest or farm forest setting.

The unit applies to individuals involved in planning and supervising the construction of log landings and snig tracks 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

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. Identify landing and recovery requirements	1.1 Gather information on the workplace health and safety and regulatory requirements, standards and codes of practice for the planning, construction and operation of landings and snig tracks 1.2 Obtain and assess information on logging methods, topography

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and environmental management considerations for site 1.3 Identify landing location and construction requirements from harvest plan, and inspect site to assess factors affecting operations 1.4 Identify timeframe for use of site and likely weather conditions 1.5 Determine log extraction methods and storage requirements for landings, roads, tracks, equipment placement, falling and recovery rates and delivery schedules
2. Plan for landings and snig tracks construction	2.1 Confirm specific landing site size and level from harvest plan meet operational requirements, optimise construction time and minimise environmental damage 2.2 Confirm type, number and location of snig tracks from harvest plan optimise track clearing and construction time and log handling capacity, and minimise environmental damage 2.3 Locate track and road entry points to landing according to harvest plan, log handling procedures, vehicle and equipment access, turning and loading space requirements 2.4 Verify landing and track provide for available equipment and access for construction 2.5 Confirm requirements for restoration of land on completion of operations
3. Coordinate landing and track development	3.1 Communicate approved landing and snig track construction plan to contractors and site personnel 3.2 Develop operational procedures for tracks and landings with contractors and site personnel 3.3 Provide technical assistance to contractors and site personnel for construction of landing and tracks 3.4 Monitor construction of landing and tracks 3.5 Review and modify plan to account for unexpected ground, water, vegetation or other environmental conditions

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 and unfamiliar regulatory and environmental information
Writing	- Document detailed and accurate plans for landings and snig tracks - Develop and document operational procedures using language easily understood by contractors and site personnel
Oral communication	- Provide clear and unambiguous instructions to site personnel - Ask open and closed questions and actively listen to clarify issues with contractors and site personnel
Numeracy	Complete complex calculations involving rates of extraction, height, length, weight, vehicle turning and loading space to determine size and capacity of snig tracks

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT4216 Plan for and coordinate construction of log landings and snig tracks	FWPHAR4203 Design log landings and snig tracks	Revised title Updated Elements and Performance Criteria Revised Foundation Skills Revised Performance Evidence Revised Assessment Conditions to comply with Standards for Training Packages	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 FWPCOT4216 Plan for and coordinate construction of log landings and snig tracks

Modification History

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

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 planned and coordinated the construction of one log landing site and associated snig tracks within a forest or farm forest setting for storing logs prior to being dispatched.

In performing this activity, the individual has:

- assessed log harvesting and extraction methods, landing site location and operational and environmental protection requirements
- confirmed that construction specifications meet operational requirements, optimise construction time and track clearing, and have a minimal impact on the environment
- prepared operational procedures and coordinated people, resources and equipment for the construction
- monitored construction development and identified methods of improvement.

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:

- content and application of applicable commonwealth, state, territory or local government regulations for the design, construction and operation of landings and snig tracks
- key features of these varying environmental conditions, and effects on the planning and construction of landings and snig tracks:
 - fallen trees
 - general forest lean
 - ground growth
 - ground hazards and obstacles
 - ground slope
 - density of trees

- wet and adverse weather conditions
- environmental protection practices for forest and forest farm settings:
 - minimising temporary, short-term, long-term and permanent damage to natural vegetation and landscape
 - soil and water protection
 - returning the environment to its original or near to original condition on completion of operations
- purpose, features and operational requirements of these types of snig tracks:
 - emergency escape routes
 - equipment access tracks
 - hauling tracks
 - vehicular tracks
- purpose, features and operational requirements of:
 - landings
 - vehicles and equipment used on landings and snig tracks
- processes for:
 - designing and coordinating the development of landings and snig tracks
 - determining the most time-effective and cost-effective plan for construction
- typical industry chain of command for communication of information, instruction and technical advice
- workplace standards, policies and procedures for the design, construction and operation of landings and snig tracks:
 - workplace health and safety specific to the use of landings and snig tracks
 - environmental protection
 - documenting designs for landings and snig tracks
 - recording and reporting the design and implementation process.

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 or plantation site in which landings and snig tracks are to be established
 - harvest plan for the site
 - topographic maps for the site
- specifications:
 - workplace safety and environmental policies and procedures applicable to the planning and construction of landings and snig tracks

- workplace policies and procedures for the planning and construction of landings and snig tracks.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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