



Australian Government

FWPHAR4203 Design log landings and snig tracks

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPIHAR4203B Design log landings and snig tracks, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to design, plan and coordinate the development of log landings and snig tracks in a forest or farm forest setting and to provide support for their construction.

The unit applies to job roles including Harvesting Supervisor, Harvesting Team Leader, Farm Forestry Supervisor, Forestry Supervisor, Forestry Operations Supervisor, Propagation and Stand Health Supervisor and Tree Farm Supervisor.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Harvesting and Haulage

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. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Plan landing and recovery requirements	1.1 Analyse workplace health and safety (WHS) and regulatory requirements, standards and codes of practice for the design, construction and operation of landings and snig tracks.

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<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>
	1.2 Obtain and assess information on logging methods, topography 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 Calculate and document log extraction methods and storage requirements for landings, roads, tracks, equipment placement, falling and recovery rates and delivery schedules.
2. Design landing and snig tracks	2.1 Calculate specific landing site size and level to meet operational requirements, optimise construction time and minimise environmental damage. 2.2 Plan number and location of snig tracks to optimise track clearing and construction time, log handling capacity and minimise environmental damage. 2.3 Locate track and road entry points to landing in line with harvest plan, log handling procedures, vehicle and equipment access, turning and loading space requirements. 2.4 Design landing and track to provide for available equipment and access for construction. 2.5 Plan and document restoration of land on completion of operations. 2.6 Document landing design and track locations in line with regulation. 2.7 Record design and development process and report to appropriate personnel.
3. Coordinate landing and track development	3.1 Communicate landing and snig track design and construction plan to site personnel to enable preparation. 3.2 Develop operational procedures for tracks and landings with site personnel. 3.3 Provide technical assistance to site personnel for construction of landing and tracks. 3.4 Monitor construction of landing and tracks; review and modify design to account for unexpected ground, water, vegetation or other environmental conditions.

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:	- identify boundaries and topographical measurements on maps and plans and calculate spatial requirements for landings and snig tracks - complete complex calculations involving rates of extraction, height, length, weight, vehicle turning and loading space to determine size and capacity of snig tracks.
Oral communication skills to:	- provide clear and unambiguous information about design plans to site personnel - ask open and closed probe questions and actively listen to clarify: - issues arising during construction - site personnel understanding of plans and modifications - use language and concepts appropriate to individual social and cultural differences.
Reading skills to:	- interpret complex and unfamiliar: - regulatory and environmental information affecting designs - harvest plans - topographic maps.
Writing skills to:	- document detailed and accurate designs for landings and snig tracks - develop and document operational procedures using language easily understood by construction and site personnel - complete detailed and accurate reports on the design and implementation process.
Initiative and enterprise skills to:	initiate and determine the most time and cost effective plan for construction.
Planning and organising skills to:	design, plan and coordinate landing and snig track development.
Problem-solving skills to:	identify environmental issues during construction and implement appropriate modifications to designs.
Teamwork skills to:	work as part of a team to develop plans, procedures and provide technical assistance to other team members during construction phase.
Technology skills to:	use computers and software programs for documenting designs for landings and snig tracks.

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Range of Conditions

Not Applicable

Unit Mapping Information

FPIHAR4203B Design log landings and snig tracks

Links

Companion Volume implementation guides are found in VETNet -

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