



Australian Government

FWPHAR3233 Use mechanised equipment for forestry site preparation on steep slopes

Release: 1

FWPHAR3233 Use mechanised equipment for forestry site preparation on steep slopes

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to set up and operate mechanised equipment for forestry site preparation on steep slopes. The unit also includes preparing for site preparation activities, conducting pre-operational equipment checks and implementing operator maintenance.

The unit applies to individuals who work as forestry machine operators in a forest or plantation setting.

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

Harvesting and Haulage (HAR)

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 site preparation activities	1.1 Determine job requirements from work order or instruction and, where required, seek clarification from appropriate personnel 1.2 Confirm safety and environmental protection requirements for

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	the task according to workplace procedures 1.3 Identify, assess and take actions to mitigate risks and hazards associated with using mechanised equipment for forestry site preparation on steep slopes 1.4 Identify emergency plan procedures to follow in the event of an emergency 1.5 Identify location of site preparation task 1.6 Plan site preparation activities according to work order or instruction 1.7 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.8 Select mechanised equipment and ground engaging attachment suitable for site preparation task 1.9 Check serviceability of mechanised equipment and ground engaging attachment 1.10 Select, fit and use personal protective equipment
2. Set up and operate machine	2.1 Carry out pre-start and start-up checks according to manufacturer instructions and workplace procedures 2.2 Identify faults or defects and rectify or report within scope of own responsibility according to workplace procedures 2.3 Drive, control and manoeuvre machine with site preparation attachments using techniques suited to equipment capabilities, site characteristics, slope and work conditions 2.4 Engage and disengage attachment according to manufacturer instructions and workplace procedures 2.5 Identify, remove or manage contaminants according to workplace procedures 2.6 Monitor and manage machine performance using appropriate indicators to ensure efficiency of operations 2.7 Monitor hazards and risks during operations and ensure safety of self, other personnel, plant and equipment 2.8 Park, shut down, secure and carry out post-operational inspection of machine according to workplace procedures
3. Carry out operator maintenance	3.1 Lock out machine according to workplace safety and manufacturer requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.2 Access tools and service equipment required for performing routine maintenance according to manufacturer instructions 3.3 Check ground engaging attachments for wear and damage at appropriate or recommended intervals 3.4 Complete operator maintenance tasks according to manufacturer recommendations and workplace procedures 3.5 Record and report production outcomes and equipment faults to appropriate personnel

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 workplace documentation to determine work requirements
Writing	Use technical and enterprise specific vocabulary to accurately and legibly complete workplace records and forms
Oral communication	Ask questions to clarify contents of production plans
Numeracy	Interpret numerical and graphical information shown on screens, displays and gauges

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR3233 Use mechanised equipment for forestry site preparation	Not applicable	This unit has been created to address an emerging skill or task required by industry	Newly created

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 FWPHAR3233 Use mechanised equipment for forestry site preparation on steep slopes

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on one occasion, the individual has:

- planned, prepared and safely and effectively operated mechanised equipment for forestry site preparation on steep slopes according to a work order or work instructions
- carried out routine equipment maintenance.

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:

- information and requirements in production, site safety and environmental management plans relevant to forest site preparation operations
- industry standards, codes of practice and guidelines for forest site preparation operations on steep slopes, and their requirements as outlined in site safety and environmental management plans
- safe work procedures and safe working zones in forest site preparation operations
- hazards and risks related to operating mechanised equipment for forestry site preparation on steep slopes, and factors that can change or introduce new hazards
- types and correct positioning of warning signs, vehicle-to-vehicle communication systems and procedures to maintain communication and workplace safety during forestry site preparation operations
- firefighting and emergency response procedures
- potential environmental impacts of mechanised equipment for forestry site preparation:
 - cultural heritage
 - flora
 - fauna
 - ground compaction
 - water contamination

- soil erosion
- environmental protection procedures relevant to forest site preparation operations
- types and uses of ground engaging attachments
- effects of slope and terrain conditions on equipment setup, operation and stability
- machine specifications, restrictions and safe operating procedures, stability and operation in different terrain conditions and slopes, and methods to shut down the machine as outlined in workplace procedures or operator manual
- methods to conduct machine pre-operational checks and detect faults as outlined in workplace procedures or operator manual
- machine maintenance and servicing requirements as outlined in operator manuals
- reporting requirements regarding site, incident and hazard, personal reporting, check-in, production, and equipment maintenance
- features, components, capacity and uses of mechanised equipment used in forestry site preparation on steep slopes
- reasons and procedures for maintenance of mechanised equipment and ground engaging attachments.

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 forestry site preparation setting
- resources, equipment and materials:
 - mechanised equipment and ground engaging attachments used in forestry site preparation on steep slopes
 - forestry site with steep slopes for site preparation activities
 - personal protective equipment required in site preparation activities operations
 - vehicle-to-vehicle communication system
- specifications:
 - access to work order or instruction detailing forestry site preparation activities to be carried out by operator
 - access to workplace safety and environmental protection policies and procedures applicable to forestry site preparation activities operations
 - access to production plan
 - access to site emergency procedure
 - access to workplace safe operating procedures for mechanised equipment used in forestry site preparation on steep slopes
 - access to user manual for vehicle-to-vehicle communication system.

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>