

**Modification history**

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

FWPHAR3XXX	Use mechanised equipment for forestry site preparation on steep slopes
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to operate mechanised equipment for forestry site preparation on steep slopes. This unit includes preparing for site preparation activities, conducting pre-operational equipment checks, setting up and operating mechanised equipment, and implementing operator maintenance.</p> <p>The unit applies to individuals who work as forestry machine operators in a forest or plantation setting.</p> <p>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.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Harvesting and Haulage

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 Review work order or instruction to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures, including the use of personal protective equipment, lockout procedures and safe manual handling techniques 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 and implement workplace environmental protection procedures for protecting natural and cultural assets, minimising and disposing of waste material, recycling and reusing materials and cleaning plant, tools and equipment 1.5 Identify emergency plan procedures to follow in the event of an emergency 1.6 Identify location of site preparation task 1.7 Select mechanised equipment including ground engaging attachment suitable for site preparation task 1.8 Check serviceability of mechanised equipment including ground engaging attachment 1.9 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.10 Plan site preparation activities according to work order or instruction.

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Set up and operate machine	2.1 Carry out prestart 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 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

<b>Foundation Skills</b>	
<i>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.</i>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Read production plans, site safety and environmental management plans relevant to forestry site preparation operations</li> <li>Read standard operating procedures and/or manufacturer instructions for forestry site preparation equipment</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Record operation, production and machine maintenance on paper-based or electronic media</li> </ul>
Oral Communication	<ul style="list-style-type: none"> <li>Ask questions to clarify contents of production plans</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Interpret numerical and graphical information shown on screens, displays and gauges</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
FWP HAR3XXX Use mechanised equipment for forestry site preparation	Not applicable	New unit	No equivalent unit

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

<b>TITLE</b>	<b>Assessment requirements for FWPHAR3XXX Use mechanised equipment for forestry site preparation on steep slopes</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has:</p> <ul style="list-style-type: none"> <li>• on one occasion planned, prepared and safely and effectively operated mechanised equipment for forestry site preparation on steep slopes according to a work order or work instructions</li> <li>• carried out routine equipment maintenance on one occasion.</li> </ul>	

<b>Knowledge Evidence</b>	
<p>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</p> <ul style="list-style-type: none"> <li>• information and requirements in production, site safety and environmental management plans</li> <li>• safe work procedures and safe working zones in forest site preparation operations</li> <li>• hazards and risks related to operating mechanised equipment for forestry site preparation on steep slopes and factors that can change or introduce new hazards</li> <li>• 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</li> <li>• emergency response procedures including firefighting</li> <li>• potential impacts of winch-assist harvesting operations on onsite and offsite environmental values including cultural heritage, flora, fauna, ground compaction, water contamination and soil erosion</li> <li>• environmental protection procedures</li> <li>• types and uses of ground engaging attachments</li> <li>• effects of slope and terrain conditions on equipment set up, operation and stability</li> <li>• machine specifications, restrictions and safe operating procedures including stability and operation in different terrain conditions and slopes and methods to shut down the machine as outlined in workplace procedures or operator manual</li> <li>• methods to conduct machine pre-operational checks and detect faults as outlined in workplace procedures or operator manual</li> <li>• machine maintenance and servicing requirements as outlined in operator manuals</li> <li>• reporting requirements regarding site, incident and hazard, personal reporting, check-in, production, and equipment maintenance</li> <li>• features, components, capacity and uses of mechanised equipment used in forestry site preparation on steep slopes</li> <li>• reasons and procedures for maintenance of mechanised equipment including ground engaging attachments</li> </ul>	

<b>Assessment Conditions</b>	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions:             <ul style="list-style-type: none"> <li>• skills must be demonstrated in a forestry site preparation setting</li> </ul> </li> <li>• resources, equipment and materials:             <ul style="list-style-type: none"> <li>• mechanised equipment including ground engaging attachments used in forestry site preparation on steep slopes</li> <li>• forestry site with steep slopes for site preparation activities</li> <li>• personal protective equipment required in site preparation activities operations</li> <li>• vehicle-to-vehicle communication system</li> </ul> </li> <li>• specifications:             <ul style="list-style-type: none"> <li>• access to work order or instruction detailing forestry site preparation activities to be carried out by operator</li> <li>• access to workplace policies and procedures which cover current Work Health and Safety Acts or Occupation Health and Safety Acts, regulations and related industry standards and codes of practice applicable to forestry site preparation activities operations</li> </ul> </li> </ul>	

<b>Assessment Conditions</b>	
<ul style="list-style-type: none"><li>• access to workplace policies and procedures which cover current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to forestry site preparation activities</li><li>• access to production plan</li><li>• access to workplace safety and environmental protection plans access to site emergency procedure</li><li>• access to workplace safe operating procedures for mechanised equipment used in forestry site preparation on steep slopes</li><li>• access to user manual for vehicle-to-vehicle communication system.</li></ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
<b>Links</b>	Companion Volume implementation guides are found in VETNet - <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a>