

**Modification history**

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

<b>FWPFGM4XXX</b>	<b>Create digital forest operational map</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to create digital forest operational maps. This includes determining map specifications, selecting and setting up Geographic Information System (GIS) software package, creating, reviewing and finalising a map, and sharing the map with end-users.</p> <p>The unit applies to individuals who work as GIS officers, <a href="#">harvest managers</a>, <a href="#">forestry planners</a>, <a href="#">forestry supervisors</a> and field foresters in a forest or plantation setting.</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>	Forest Growing and Management

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 work	1.1 Review work order, workplace health and safety, environmental protection and emergency procedures to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Identify and report hazards according to workplace health and safety requirements to maintain safe work practices 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Determine map specifications according to work order or instructions 1.7 Set up hardware, Geographic Information System (GIS) software package, Internet access and equipment needed for the work and check for correct operation and safety according to manufacturer recommendations and workplace procedures.
2. Create forest operational map	2.1 Confirm format, extent, content, scale and intended use of map 2.2 Select base map according to work requirements and software developer instructions 2.3 Add layers to base map from the software package, web or files to show physical features and forestry-related information according to work requirements and software developer instructions 2.4 Change styles in map according to work requirements and software developer instructions 2.5 Configure pop-ups according to work requirements and software developer instructions 2.6 Add item information to map, including description, terms of use, and attribution, according to workplace procedures and software developer instructions 2.7 Display draft map according to display specifications and workplace requirements 2.8 Proof the draft map and fix any errors 2.9 Save and store draft map according to software developer instructions and workplace procedures

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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. Review and share map	3.1 Use software tools to share draft map with appropriate people for comment according to workplace procedures 3.2 Review feedback to identify improvements and make agreed changes to map according to workplace procedures 3.3 Save final version of map in appropriate format and share with intended users according to workplace procedures

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Foundation Skills	
<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>	
Skill	Description
Reading	<ul style="list-style-type: none"><li>Read complex text in print and electronic format including instructional manuals for GIS software packages</li></ul>
Writing	<ul style="list-style-type: none"><li>Enter routine text and technical terms on forestry operational maps using GIS applications</li></ul>
Oral Communication	<ul style="list-style-type: none"><li>Ask questions to clarify instructions, feedback or information</li></ul>
Numeracy	<ul style="list-style-type: none"><li>Recognise metric units of measurement</li><li>Perform routine mathematical calculations related to using scale and calculating distances</li></ul>

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Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFGM4XXX Create digital forest operational map	Not applicable	New unit	No equivalent unit

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a>
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<b>TITLE</b>	<b>Assessment requirements for FWPFGM4XXX Create digital forest operational map</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 used a Geographic Information System (GIS) software program to create and share three forestry operational maps according to a work order or work instructions.</p>	
<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>• range and functionality of GIS software packages</li> <li>• basic GIS concepts <ul style="list-style-type: none"> <li>• sources and types of spatial data and projections</li> <li>• application areas</li> <li>• map features</li> <li>• map layers</li> </ul> </li> <li>• procedure to create digital maps <ul style="list-style-type: none"> <li>• choose base map</li> <li>• select data</li> <li>• add layers with relevant data</li> <li>• change styles</li> <li>• configure pop-ups</li> <li>• save map</li> <li>• proofread map</li> <li>• share map</li> </ul> </li> <li>• georeferencing maps</li> <li>• reasons and procedures for checking accuracy, integrity and completeness of data</li> <li>• fundamental features of maps <ul style="list-style-type: none"> <li>• title</li> <li>• coordinates</li> <li>• scale</li> <li>• legend</li> <li>• data frame</li> <li>• orientation</li> <li>• citation</li> </ul> </li> <li>• forest operational maps <ul style="list-style-type: none"> <li>• purpose</li> <li>• intended users</li> <li>• format</li> <li>• information contained in forest operation maps</li> <li>• amendments</li> <li>• versions.</li> </ul> </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 or plantation setting</li> </ul> </li> <li>• resources, equipment and materials: <ul style="list-style-type: none"> <li>• computer hardware required to run GIS software package</li> <li>• GIS software package</li> <li>• Internet access</li> </ul> </li> <li>• specifications:</li> </ul>	

### Assessment Conditions

- access to work order or instruction detailing requirements for forestry operational map
- 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 operating computer software and hardware
- access to workplace policies and procedures which cover current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to operating computer software and hardware
- access to workplace safety and environmental protection plans
- access to site emergency procedure
- access to workplace acceptable use policies for use of computing equipment
- access to ~~manufacturer~~ manual for computing equipment and technical instructions for use of GIS software package.

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

### Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>