

**Modification history**

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

FWPFGM2XXX	Plant trees by hand
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to select suitable tree stock, assess planting site and plant trees by hand as part of forestry operations.</p> <p>The unit applies to individuals who plant trees by hand as part of forestry operations.</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 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 (FGM)

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 planting operations	1.1 Determine job requirements from work order or instruction, and where required, seek clarification from appropriate personnel 1.2 Confirm safety and environmental requirements for the task according to workplace procedures 1.3 Identify, assess and take actions to mitigate risks and hazards associated with manual tree planting operations 1.4 Identify emergency and evacuation procedures to follow in the event of an incident or accident 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Select tools, equipment, and materials for manual tree planting and check for serviceability according to workplace procedures 1.7 Obtain and prepare planting stock according to work order
2. Assess planting site and tree stock	2.1 Assess planting site for suitability and prepare according to work order 2.2 Select work methods, quantities and patterns to suit tree type and planting site 2.3 Select quantity of tree stock to plant according to production target and stock quality 2.4 Distribute required stock quantities across the site ready for planting 2.5 Identify and resolve issues associated with the site, equipment, tree stock, hazards or safety according to workplace procedures
3. Plant tree stock	3.1 Use equipment according to workplace procedures. 3.2 Plant tree stock by hand with minimal handling, adapting work methods or patterns as required 3.3 Identify and dispose of unsuitable tree stock according to environmental protection practices 3.4 Maintain and store equipment and remaining tree stock according to workplace procedures

<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>Extract information for industry guides and standard references on tree planting techniques</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Complete basic records of tree planting activities.</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Ask open and closed questions and use active listening techniques to clarify contents of work orders</li> <li>Provide oral reports on tree planting activities</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Complete routine calculations involving depth, width and spacing of tree plantings</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>
FWPFGM2XXX Plant trees by hand	FWPFGM2203 Plant trees by hand	Updated Application Statement  Reworded Element and Performance Criteria  Updated Foundation Skills and Assessment Conditions	Equivalent

<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>
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TITLE	Assessment requirements for FWPFGM2XXX Plant trees by hand
<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, on one occasion, the individual has:</p> <ul style="list-style-type: none"> <li>• followed work order to prepare a planting site for tree stock, according to required: <ul style="list-style-type: none"> <li>• hole depth</li> <li>• hole width</li> <li>• cultivation requirements</li> </ul> </li> <li>• assessed the site and planted tree stock manually by: <ul style="list-style-type: none"> <li>• checking for appropriate atmosphere, moisture content and seasonal suitability for planting</li> <li>• ensuring appropriate spacing and growth suitability for each tree</li> <li>• handling tree stock minimally</li> </ul> </li> <li>• used the following tools and equipment safely and efficiently when handling tree stock: <ul style="list-style-type: none"> <li>• spade</li> <li>• planting frame</li> <li>• planting tools</li> <li>• harness</li> <li>• auger</li> </ul> </li> <li>• identified and solved one of the following problems when planting tree stock: <ul style="list-style-type: none"> <li>• site issue</li> <li>• equipment issue</li> <li>• environmental hazard</li> <li>• safety issue</li> <li>• unsuitable planting stock</li> <li>• pests.</li> </ul> </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>• typical environmental hazards present in forest planting situations and methods of minimising risks: <ul style="list-style-type: none"> <li>• slope</li> <li>• water</li> <li>• rock</li> <li>• undergrowth</li> <li>• slash</li> <li>• depressions and holes</li> <li>• falling or fallen branches</li> </ul> </li> <li>• typical causes of stock defects: <ul style="list-style-type: none"> <li>• pests</li> <li>• diseases</li> <li>• nutritional deficiencies</li> </ul> </li> <li>• visual characteristics of stock defects: <ul style="list-style-type: none"> <li>• defective form, including double leaders</li> <li>• malformed or insufficient root systems</li> <li>• discoloured leaves or needles</li> </ul> </li> <li>• factors to consider for planting trees and how these affect quality and characteristics of grown trees: <ul style="list-style-type: none"> <li>• planting depth</li> <li>• spacing and row positioning of seedlings</li> <li>• root placement</li> </ul> </li> <li>• types of tools and equipment used to plant tools manually and procedures for their safe use and maintenance: <ul style="list-style-type: none"> <li>• spades</li> <li>• planting frames</li> </ul> </li> </ul>	

<b>Knowledge Evidence</b>
<ul style="list-style-type: none"> <li>• planting tools</li> <li>• harnesses</li> <li>• augers</li> <li>• workplace procedures specific to planting trees by hand:                             <ul style="list-style-type: none"> <li>• workplace health and safety with particular emphasis on risk control and use of personal protective equipment</li> <li>• communication reporting lines.</li> </ul> </li> <li>• environmental protection practices for forest settings:                             <ul style="list-style-type: none"> <li>• cleaning plant, tools and equipment</li> <li>• disposing of and recycling waste</li> <li>• returning the environment to its original or near to original condition on completion of activity</li> </ul> </li> <li>• safe manual handling techniques for operating in forest settings, specifically those for:                             <ul style="list-style-type: none"> <li>• shifting</li> <li>• lifting</li> <li>• carrying tree stock.</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 forest or wood products work environment or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials:                             <ul style="list-style-type: none"> <li>• commercial quantities of tree stock for planting</li> <li>• tools, equipment and materials used in manual tree planting</li> <li>• personal protective equipment suitable for manual tree planting</li> </ul> </li> <li>• specifications:                             <ul style="list-style-type: none"> <li>• access to work order or instruction with specific instructions for types and quantities of trees to be planted</li> <li>• access to workplace health, safety and environmental policies and procedures applicable to manual tree planting</li> <li>• workplace procedures for manual tree planting.</li> </ul> </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 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>
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