

**Modification history**

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

<b>FWPFGM2XXX</b>	<b>Collect tree seeds</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to collect, treat and store native or non-native seed as part of forestry operations.</p> <p>The unit applies to individuals who are involved in collecting seeds 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 to collect seed	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 seed collection 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, machinery and materials for seed collection and check for serviceability according to workplace procedures 1.7 Identify potential locations for collecting required seeds and obtain approval from appropriate personnel.
2. Select and assess seed	2.1 Identify plant species and assess condition visually to determine healthy seeds 2.2 Select and use appropriate seed collection method, maintaining genetic diversity and preventing damage to parent plant 2.3 Place seed in clean containers and label accurately according to workplace procedures
3. Clean and store seed	3.1 Separate, weigh and treat seed to prevent deterioration according to species requirements 3.2 Package seed for storage using appropriate technique 3.3 Control environmental factors when packing collected seeds 3.4 Record and report details of seed species, weight and place of origin 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>Extract information for industry guides and standard references on seed collection and treatment techniques</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Complete forms detailing results of seed collection operations</li> <li>Label collected seed</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Perform routine measurements of seed weights and quantities</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 selection of seed collection operations</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 Collect tree seeds	FWPFGM2201 Collect seed	Reworded title  Minor change to Application Statement  Reworded Elements and Performance Criteria  Minor update to Knowledge Evidence  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 Collect tree seeds
<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>• identified locations and obtain appropriate approvals for the collection of seeds</li> <li>• collected seed from plants and planted areas using the appropriate method selected from:             <ul style="list-style-type: none"> <li>• climbing</li> <li>• shaking</li> <li>• shooting</li> <li>• ground collection</li> </ul> </li> <li>• used the appropriate separation methods selection from:             <ul style="list-style-type: none"> <li>• hand selection</li> <li>• wind separation/winnowing</li> <li>• sieving</li> <li>• vibrating</li> <li>• flotation</li> <li>• drying</li> <li>• husk crumbling</li> </ul> </li> <li>• for each of the above seed collection methods, selected, used and performed operator maintenance of appropriate equipment safely and efficiently:             <ul style="list-style-type: none"> <li>• ladders</li> <li>• pruning and shaking equipment</li> <li>• sheets and tarpaulins</li> <li>• high-powered rifles</li> <li>• elevated work platforms</li> <li>• hand tools</li> </ul> </li> <li>• used packaging and storage techniques for seed collection based on seed type and collection method:             <ul style="list-style-type: none"> <li>• vacuum sealing</li> <li>• use of inert atmospheres: nitrogen and carbon dioxide.</li> </ul> </li> <li>• treated collected seed for protection against pests using the appropriate methods:             <ul style="list-style-type: none"> <li>• heat</li> <li>• mechanical</li> <li>• chemical</li> </ul> </li> <li>• controlled each of these environmental factors when packing collected seeds:             <ul style="list-style-type: none"> <li>• temperature</li> <li>• light</li> <li>• moisture.</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>• collection techniques according to health of parent plant:             <ul style="list-style-type: none"> <li>• hand picking</li> <li>• careful and selective pruning</li> </ul> </li> <li>• common separation methods used to treat and weigh seed:             <ul style="list-style-type: none"> <li>• hand selection</li> <li>• wind separation/winnowing</li> <li>• sieving</li> <li>• vibrating</li> <li>• flotation</li> <li>• drying</li> <li>• husk crumbling</li> </ul> </li> </ul>	

<b>Knowledge Evidence</b>
<ul style="list-style-type: none"> <li>• seed species and collection, treatment and packaging processes, including storage requirements for different seed species</li> <li>• type of information that is recorded for seed collection:             <ul style="list-style-type: none"> <li>• time and date of harvest</li> <li>• time and date of receipt</li> <li>• weight</li> <li>• seed origin</li> </ul> </li> <li>• common pests and diseases that infect seed species and visual characteristics</li> <li>• seed treatment methods for protection against pests:             <ul style="list-style-type: none"> <li>• heat</li> <li>• mechanical</li> <li>• chemical protection against pests.</li> </ul> </li> <li>• packaging and storage techniques for seed collection:             <ul style="list-style-type: none"> <li>• vacuum sealing</li> <li>• use of inert atmospheres: nitrogen and carbon dioxide.</li> </ul> </li> <li>• controls for the packing environment:             <ul style="list-style-type: none"> <li>• temperature</li> <li>• light</li> <li>• moisture</li> </ul> </li> <li>• environmental protection practices for forest environment setting:             <ul style="list-style-type: none"> <li>• the safe disposal of waste material</li> <li>• returning the environment to its original or near to original condition on completion of activity</li> <li>• procedures for minimising environmental impact</li> </ul> </li> <li>• safe use, handling, storage and transport of chemicals</li> <li>• workplace procedures specific to collecting seed:             <ul style="list-style-type: none"> <li>• work health and safety with particular emphasis on use of personal protective equipment and handling hazardous substances</li> <li>• communication reporting lines</li> <li>• recording and reporting seed collection information.</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>• site for seed collection</li> <li>• tools, machinery, equipment and materials for seed collection</li> <li>• personal protective equipment suitable for seed collection</li> </ul> </li> <li>• specifications:             <ul style="list-style-type: none"> <li>• access to workplace health, safety and environmental policies and procedures applicable to seed collection</li> <li>• workplace procedures for seed collection.</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>

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