



Australian Government

FWPNSY2001 Collect tree seeds

Release: 1

FWPNSY2001 Collect tree seeds

Modification History

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

Application

This unit of competency describes the skills and knowledge required to collect, separate, treat and package native or non-native tree seed as part of forestry operations.

The unit applies to individuals who are involved in collecting tree seeds as part of forestry operations.

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

Forest Nursery Production (NSY)

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 to collect tree 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, including use of personal protective equipment, for the task according to workplace procedures 1.3 Identify, assess and take actions to mitigate risks and hazards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	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, separation, treatment and packaging and check for serviceability according to workplace procedures 1.7 Identify potential locations for collecting required seeds, and obtain approval from appropriate personnel
2. Collect and assess tree 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 tree 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 details of seed species, weight and place of origin

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	Extract information from industry guides and standard references on seed collection and treatment techniques
Writing	- Complete forms detailing results of seed collection operations - Label collected seed

Skill	Description
Oral communication	• Ask open and closed questions and use active listening techniques to clarify contents of work orders • Provide oral reports on selection of seed collection operations
Numeracy	• Perform routine measurements of seed weights and quantities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPNSY2001 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

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 FWPNSY2001 Collect tree seeds

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Performance Evidence

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

There must be evidence that the individual has collected, assessed, cleaned and stored one batch of seeds for one species of tree.

In undertaking this activity, the individual has:

- identified the location and obtained appropriate approvals for the collection of tree seeds
- collected tree seed from plants and planted areas using the appropriate method selected from:
 - climbing
 - shaking
 - shooting
 - ground collection
- used the appropriate separation methods selected from:
 - hand selection
 - wind separation/winnowing
 - sieving
 - vibrating
 - flotation
 - drying
 - husk crumbling
- packaged tree seed for storage using appropriate technique
- treated collected tree seed to prevent deterioration using methods selected from:
 - heat
 - mechanical
 - chemical
- controlled the following environmental factors when packaging collected tree seeds:
 - temperature
 - light

- moisture
- recorded details of tree seed species, weight and place of origin
- complied with workplace safety procedures, including the use of personal protective equipment (PPE).

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:

- collection techniques according to health of parent plant:
 - hand picking
 - careful and selective pruning
- common separation methods used to treat and weigh seed:
 - hand selection
 - wind separation/winnowing
 - sieving
 - vibrating
 - flotation
 - drying
 - husk crumbling
- seed treatment and packaging processes, including storage requirements for different seed species
- types of information recorded for seed collection:
 - time and date of harvest
 - time and date of receipt
 - weight
 - seed origin
- common pests and diseases that infect seed species, and visual characteristics
- seed treatment methods to prevent deterioration:
 - heat
 - mechanical
 - chemical
- packaging and storage techniques for seed collection:
 - vacuum sealing
 - use of inert atmospheres: nitrogen and carbon dioxide
- controls for the packing environment:
 - temperature
 - light
 - moisture
- environmental protection practices for forest environment setting:
 - the safe disposal of waste material

- returning the environment to its original or near to original condition on completion of activity
- procedures for minimising environmental impact
- safe use, handling, storage and transport of chemicals
- workplace procedures specific to collecting seed:
 - work health and safety, with particular emphasis on use of PPE and handling hazardous substances
 - communication reporting lines
 - recording and reporting seed collection information.

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 forest or wood products work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - site for tree seed collection, separation, treatment and packaging
 - tools, machinery, equipment and materials for tree seed collection, separation, treatment and packaging
 - PPE suitable for seed collection, separation, treatment and packaging
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to seed collection, separation, treatment and packaging
 - workplace procedures for seed collection, separation, treatment and packaging.

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

Links

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