



Australian Government

FWPNSY3004 Identify, evaluate and mark quality seed trees

Release: 1

FWPNSY3004 Identify, evaluate and mark quality seed trees

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 identify, evaluate, mark and record the position of potential seed trees.

The unit applies to individuals who are involved in tree nursery 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 for locating and evaluating seed trees	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 identifying, evaluating and marking seed trees 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, and check for serviceability according to workplace procedures
2. Identify and evaluate proposed seed tree	2.1 Identify the genus, species and location of potential seed trees according to foliage, fruit and flower characteristics 2.2 Verify the provenance of the stand in which the seed trees are located 2.3 Identify the sex of the proposed seed trees and proximity to male specimens 2.4 Identify evaluative criteria used to determine the suitability of the proposed seed trees as timber producers 2.5 Assess potential seed trees according to their suitability as timber producers 2.6 Identify the silvicultural history of the stand in which the potential seed trees are located in relation to the suitability of the trees as seed producers 2.7 Record data on the potential seed trees and the surrounding stand according to workplace procedures
3. Confirm location of seed trees	3.1 Mark and demarcate seed trees within the general stand according to workplace procedures 3.2 Record position of seed tree using hard copy maps/plans, Global Positioning System (GPS) coordinates or digital maps according to workplace procedures 3.3 Report location of seed trees to appropriate person

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 identifying, evaluating and marking seed trees
Writing	Complete workplace forms
Oral communication	Ask open and closed questions and use active listening techniques to clarify contents of work orders
Numeracy	Apply basic arithmetic functions to estimate tree dimensions and branch angles

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPNSY3004 Identify, evaluate and mark quality seed trees	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

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 FWPNSY3004 Identify, evaluate and mark quality seed trees

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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 identified, evaluated, marked and located the position of one seed tree according to work instructions.

In undertaking this activity, the individual has:

- confirmed safety and environmental requirements, including use of personal protective equipment (PPE) for the task
- selected and checked for serviceability tools, equipment and materials
- identified the position, provenance, characteristics and suitability for seed production of one proposed seed tree
- marked and demarcated the seed tree within the general stand according to workplace procedures
- recorded and reported position of the seed tree using hard copy maps/plans, Global Positioning System (GPS) coordinates or digital maps according to workplace procedures.

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:

- species, provenances and stand of seed trees
- evaluation criteria for seed trees:
 - health
 - vigour
 - freedom from pests
 - stem straightness
 - branch size
 - branch angle
 - branching patterns

- spiral grain
- wood density
- stem fluting
- flowering size
- tools and equipment used in seed orchard maintenance
- silvicultural history of stand in which seed tree is located:
 - establishment success
 - pruning practices
 - thinning schedules
- techniques for marking and demarcating seed trees
- techniques for recording position of seed trees:
 - maps
 - plans
 - GPS.

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 work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - stands of trees with potential seed trees
 - tools, equipment, materials and PPE used in identifying, evaluating, marking and locating seed trees
- specifications:
 - work instructions for identifying, evaluating, marking and recording the position of potential seed trees
 - workplace health, safety and environmental policies and procedures applicable to identifying, evaluating and marking seed trees.

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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