



Australian Government

FWPNSY2005 Apply tree seed treatment

Release: 1

FWPNSY2005 Apply tree seed treatment

Modification History

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

Application

This unit of competency describes the skills and knowledge required to apply tree seed treatment technologies for disease control, insect pest control and yield enhancement. Seed applied technologies include inoculants, herbicide safeners, micronutrients, plant growth regulators, seed coatings and colorants.

The unit applies to individuals who use seed treatment processes in commercial and non-commercial tree production.

All work must be carried out to comply with workplace procedures according to state/territory health and safety and food 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 seed treatment	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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures 1.3 Identify, assess and take actions to mitigate risks and hazards associated with tree seed treatments 1.4 Confirm emergency procedures for responding to unintended exposures, spills or accidents 1.5 Consult with team members to ensure that seed treatment operations are coordinated effectively 1.6 Confirm seed treatment method 1.7 Organise seeds, seed treatment products and equipment required for seed treatment process
2. Implement pre-treatment quality procedures	2.1 Check quality of seed to be used in treating processes according to workplace procedures 2.2 Verify quality and suitability of seed treatment products according to workplace procedures 2.3 Verify seed treatment equipment is capable of accurately and uniformly applying the chosen product to seed with acceptable physical properties of the treated seed 2.4 Report non-compliant seed, seed treatment products and equipment to appropriate personnel
3. Treat seed	3.1 Confirm seed species and quantity and seed treatment method according to work order 3.2 Identify factors that may affect product integrity and product control 3.3 Identify critical control points in seed treatment process 3.4 Prepare seed treatment products according to workplace procedures and manufacturer instructions 3.5 Calibrate equipment and adjust equipment settings for lot changes, as required 3.6 Implement seed treatment process according to workplace procedures and manufacturer instructions 3.7 Follow changeover procedures when switching from one product or mixture to another 3.8 Follow workplace procedures and manufacturer instructions for handling, control and proper disposal of leftover and unused treatment product components, packaging materials, rinse water from treatment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	equipment, wastes and treated seed 3.9 Monitor seed treatment to verify application rate, and ensure product appearance and quality and compliance with production targets 3.10 Package, label and store treated seed according to workplace procedures
4. Maintain seed treatment records	4.1 Record production outcomes, treatment records and seed treatment application rate according to workplace procedures 4.2 Maintain records of equipment calibration, maintenance and equipment faults or malfunctions and corrective actions taken according to workplace procedures 4.3 Tag and report faulty and/or defective equipment according to workplace procedures

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	Interpret complex written, technical information in operating manuals to confirm equipment operations and perform troubleshooting
Writing	Complete routine workplace records related to quality, equipment calibration, maintenance and faults and product quality
Oral communication	Use active listening and questioning techniques to convey and clarify information
Numeracy	Perform routine calculations related to time, ratio, weight, production capacity, volume and number

Unit Mapping Information

Code and title	Code and title	Comments	Equivalence status
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current version	previous version		
FWPNSY2005 Apply tree seed treatment	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 FWPNSY2005 Apply tree seed treatment

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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 treated one batch of tree seeds for one of the following:

- disease control
- insect pest control
- yield enhancement.

In undertaking this activity, the individual has:

- complied with safety and environmental requirements, including use of personal protective equipment (PPE) and safe use of chemicals
- conducted pre-treatment quality checks of seed, seed treatment products and seed treatment equipment
- selected, implemented and monitored appropriate seed treatment process
- recorded production and treatment data
- maintained records of equipment calibration, maintenance and equipment faults or malfunctions and corrective actions taken
- tagged and reported faulty and/or defective equipment.

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:

- types and applications of tree seed treatments:
 - inoculants
 - herbicide safeners
 - micronutrients
 - plant growth regulators

- seed coatings
- colorants
- sources of information on tree seed treatment
- reasons for using tree seed treatment:
 - pest control
 - insect pest control
 - yield enhancement
- tree species where chemical seed treatments are used
- methods for:
 - verifying quality and suitability of seed, seed treatment products and equipment
 - selecting seed treatment method
 - identifying critical control points in seed treatment process
 - monitoring seed treatment process
 - safe use, handling, storage and transport of chemicals
 - packaging, labelling, transporting and storing treated seed
- assessment of treated seed properties:
 - uniformity of treatment coating of individual seeds
 - presence and amount of treated seed dust
- environmental sustainability issues as they relate to the work task
- work health and safety requirements specific to the work task.

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 tree production work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - a commercial quantity of tree seed for treatment
 - PPE, seed treatment equipment and seed treatment products
- specifications:
 - workplace procedures for tree seed treatment
 - workplace health, safety and environmental policies and procedures applicable to tree seed treatment.

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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