



Australian Government

FWPNSY2004 Prick out and transplant tree seedlings

Release: 1

FWPNSY2004 Prick out and transplant tree seedlings

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 prick out, transplant and pot on tree seedlings and rooted cuttings mainly for revegetation/regeneration production.

The unit applies to individuals who prick out and transplant tree seedlings 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 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 pricking out and transplanting tree seedlings	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 pricking out and transplanting 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 pricking out and transplanting, and check for serviceability according to workplace procedures
2. Prick out tree seedlings	2.1 Extract seedlings from trays 2.2 Apply pricking out techniques that avoid damage to seedlings 2.3 Apply root positioning techniques that ensure that tap roots and lateral roots are not distorted during transfer 2.4 Apply firming-in technique that maintains root orientation 2.5 Water-in seedlings immediately after pricking out to ensure root contact with medium 2.6 Water unused seedlings to maintain plant vitality
3. Transplant and pot on tree seedlings and rooted cuttings	3.1 Trim rooted systems to a suitable length, taking into account plant size, container size and root system characteristics 3.2 Check tap roots and lateral roots to ensure they are not distorted when placing in containers or when transplanting into open beds 3.3 Firm-in after transplanting, ensuring that root systems are not distorted 3.4 Pot on transplanted pot at appropriate intervals according to species, growth rate and workplace procedures
4. Clean up	4.1 Check, clean and store tools and equipment after pricking out and transplanting operations 4.2 Reuse, recycle or dispose of waste 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	Extract information from industry guides and standard references on pricking out and transplanting techniques
Writing	Complete workplace forms
Oral communication	- Ask open and closed questions and use active listening techniques to clarify contents of work orders - Provide oral reports on pricking out and transplanting operations
Numeracy	Count quantity of seedlings

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPNSY2004 Prick out and transplant tree seedlings	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 FWPNSY2004 Prick out and transplant tree seedlings

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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:

- pricked out tree seedlings according to production requirements in a daily operation
- transplanted and potted on tree seedlings and rooted cuttings according to production requirements in a daily operation.

In undertaking this activity, the individual has:

- complied with safety and environmental requirements, including use of personal protective equipment (PPE)
- selected tools, equipment and materials for the task
- applied all required techniques in pricking out, transplanting and potting on tree seedlings and rooted cuttings
- checked, cleaned and stored tools and equipment after pricking out and transplanting operations
- reused, recycled or disposed of waste 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:

- typical workplace hazards associated with pricking out and transplanting operations, and methods of minimising risks
- reasons for pricking out and using particular techniques
- reasons for transplanting and using particular techniques
- reasons for potting on
- root system quality:
 - tap root distortion

- lateral root distortion
- impact of root distortion on tree stability
- pricking out tree seedling techniques:
 - extracting seedlings from trays
 - pricking out techniques
 - root positioning techniques
 - firming-in technique that maintains root orientation
 - techniques for watering-in seedlings
- transplant transfer techniques for tree species
- potting on intervals and techniques for tree species
- purpose, features and safe operation of tools and equipment used in pricking and transplanting operations
- workplace procedures specific to pricking and transplanting operations:
 - workplace health and safety, with particular emphasis on risk control and use of personal protective equipment
 - communication reporting lines.

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:
 - tree seedlings
 - tools, equipment and materials used in pricking out and transplanting operations
 - PPE suitable for use in pricking out and transplanting operations
- specifications:
 - workplace health, safety and environmental policies and procedures applicable to pricking out and transplanting operations
 - workplace procedures for pricking out and transplanting operations.

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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