



Australian Government

**Assessment Requirements for
FWPNSY3007 Operate automated topping
system as part of tree production nursery
operations**

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Modification History

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

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 operated and maintained an automated topping system as part of tree production nursery operations for one batch in one production run.

In undertaking this activity, the individual has:

- determined job requirements
- confirmed safety and environmental requirements, including use of personal protective equipment (PPE) and emergency stops, gauges, guards and controls
- selected seedlings to be trimmed according to job requirements
- confirmed production capacity and full range of functions of automated topping system
- selected topping system program and loaded and/or positioned seedlings
- conducted trial runs to check topping operation, accuracy, alignment and that finished product met quality requirements
- operated and monitored topping system
- recorded production outcomes and equipment faults or malfunctions and corrective actions taken
- performed routine operator maintenance on topping machine system.

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, functions, components, accessories and capacity of automated topping systems used in tree production nursery operations
- types of blades:
 - reciprocating
 - rotating
- sources of information on automated topping system operation and maintenance

- reasons for using automated topping systems in tree production nursery operations:
 - speed
 - controlling accuracy
 - consistency of product dimensions
 - reducing mechanical injury
- methods for:
 - setting up automated topping system
 - selecting programs for automated topping system
 - operating automated topping system
 - quality assurance
 - troubleshooting automated topping system
 - maintaining automated topping system
 - maintaining and/or replacing blades
 - reporting machinery faults and material defect
- basic components and functions of mechatronic systems:
 - sensors
 - actuators
 - controllers
 - mechanical components
- environmental sustainability issues as they relate to the work task
- workplace 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 forest environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - an automated topping system for forestry nursery production
 - commercial quantities of seedlings to be topped
 - PPE suitable for operation of automated topping system
- relationships:
 - work team for seed sowing line
- specifications:
 - workplace procedures for setting up, operating and maintaining automated topping systems
 - workplace health, safety and environmental policies and procedures applicable to forestry nursery production.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>