



Australian Government

**Assessment Requirements for
FWPNSY3008 Operate automated seed
sowing line for containerised forest seedling
production**

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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 seed sowing line for containerised forest seedling production 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 and loaded correct species, quantity, size and grade of tree seed, media and type and number of trays/containers
- confirmed production capacity and full range of functions of seed sowing line
- selected seed sowing line program and conducted trial runs to check seed sowing line operation and quality of finished product
- operated and monitored tree seed sowing equipment including recording production outcomes and equipment faults or malfunctions
- taken corrective actions in response to machine faults and performed routine operator maintenance on tree seed sowing 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, functions, components, accessories and capacity of seeding systems used in containerised forest seedling production
- sources of information on seed sowing line operation and maintenance
- reasons for using seed sowing line for containerised forest seedling production:
 - sowing speed
 - controlling accuracy

- reducing mechanical injury of seeds
- reducing the occurrence of skips, missed seed placement and multiple sown seeds
- types and application of containers/trays
- types and purpose of seed treatments
- types and characteristics of media
- methods for:
 - setting up seed sowing line
 - selecting programs for seed sowing line
 - operating seed sowing line
 - quality assurance
 - troubleshooting seed sowing line
 - maintaining seed sowing line
 - reporting machinery faults and material defects
- basic components and functions of mechatronic systems:
 - sensors
 - actuators
 - controllers
 - mechanical components
- 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 forest work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - a seed sowing line for forestry nursery production
 - commercial quantities of seed, containers and media
 - PPE for operation of seed sewing line
- relationships:
 - work team for seed sowing line
- specifications:
 - workplace procedures for setting up, operating and maintaining seed sowing line
 - 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>