



Australian Government

FBPVIT3004 Monitor and maintain nursery plants

Release: 1

FBPVIT3004 Monitor and maintain nursery plants

Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to monitor and maintain containerised nursery plants.

The unit applies to individuals who carry out workplace procedures in completing tasks associated with maintaining nursery plants.

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 occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Prerequisite unit of competency for this unit is:

- FBPVIT2012 Identify and treat nursery plants and disorders

Unit Sector

Viticulture (VIT)

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. Monitor environmental parameters	1.1 Confirm job requirements 1.2 Identify potential health and safety hazards and controls according to workplace procedures 1.3 Select and fit personal protective equipment according to the job

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	requirements 1.4 Monitor environmental parameters against the production plan 1.5 Alter environmental parameters to meet the needs of the plants 1.6 Maintain nursery hygiene to comply with industry and workplace procedures
2. Determine daily water requirements	2.1 Identify plant water requirements to maintain required health and growth according to workplace procedures 2.2 Irrigate plants according to workplace procedures 2.3 Monitor water requirements according to workplace procedures 2.4 Maintain nursery irrigation system to meet plant production plan
3. Implement treatments to promote plant growth	3.1 Test potting media according to workplace procedures 3.2 Monitor overall health of plants according to workplace procedures 3.3 Implement plant treatments according to production plans 3.4 Identify and address non-conformances according to workplace procedures
4. Monitor the dispatch of stock	4.1 Confirm availability of stock and timing of dispatch with customers according to workplace procedures 4.2 Prepare plants for dispatch in line with customer requirements 4.3 Check stock to ensure it meets quality specifications 4.4 Check orders against stock being dispatched to ensure compliance 4.5 Record workplace information 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	Comprehend information from a variety of workplace documents

Skill	Description
Numeracy	Calculate numerical information relating to measuring quantities, adjusting equipment controls and stock operations
Navigate the world of work	Apply workplace procedures and legislative responsibilities relevant to own role
Interact with others	Use required communication mode to report operational information to relevant personnel
Get the work done	- Respond to routine problems by referring to workplace procedures - Plan and organise tasks to achieve job requirements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPVIT3004 Monitor and maintain nursery plants	FDFWGG3009A Monitor and maintain nursery plants	Updated to meet Standards for Training Packages Code changed to reflect industry sector Minor changes to Performance Criteria for clarity One prerequisite unit removed	Equivalent unit

Links

Companion Volume Implementation Guides are found in VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPVIT3004 Monitor and maintain nursery plants

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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 safely and effectively monitored and maintained three different containerised nursery plants and demonstrated the following:

- identifying and following health and safety in the workplace procedures
- selecting and using personal protective equipment (PPE)
- identifying environmental factors and their effect on plant growth and health
- monitoring and controlling irrigation and treatments to meet production outcomes
- identifying and addressing non-conformances
- confirming available stock levels to meet customer requirements
- preparing stock for dispatch
- dispatching nursery plant stock to meet customer requirements
- completing documentation to workplace requirements.

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:

- basic vine physiology, as it applies to:
 - transpiration
 - water intake
 - nutrient uptake
 - photosynthesis
 - respiration
 - translocation
- parts of the root, trunk, shoot and fruit systems of the grapevine, their role in how the vine works and their contribution to fruit quality:
 - buds, nodes and tendrils

- cambium, epidermis, phloem and xylem
- leaf blade, bract and petiole
- bunch, berries and flowers
- key grape varieties and their distinguishing features:
 - berry and bunch characteristics
 - frost and disease resistance
 - flavour and style
- annual grapevine growth stages:
 - budburst
 - flowering
 - on set of ripening
 - maturity
- irrigation systems and methods including:
 - methods of calculating daily water needs
 - methods for monitoring water use
 - relationship between water needs of nursery plants and environmental parameters
- maintenance of irrigation systems:
 - fixing blockages
 - servicing irrigation system components
 - identifying and reporting faults in the irrigation system
 - fixing leaking heads and hoses
 - monitoring water requirements
 - using soil moisture devices
- checking plants for physical signs of water stress or waterlogging
- types of potting media, their characteristics and effect on plant growth
- tests to determine quality of potting media:
 - pH, drainage, aeration
 - salinity
 - nitrate levels
 - water repellence
- maintenance of work area to meet workplace hygiene standards:
 - removing weeds
 - removing dead or diseased plant materials
 - washing work area on transfer of plants
 - disinfecting tools, equipment and work areas
 - using foot baths on entry to different work areas
- procedures for applying treatments to vines:
 - fungicides
 - fertilisers
 - insecticides

- hormones
- pruning
- hardening off
- preparing, mixing and using chemicals
- quality parameters for nursery plants
- treatments required by plants at different growth stages
- health and safety hazards and controls in the workplace:
 - selecting, fitting and using appropriate PPE
 - identifying potential and existing hazards in the work area and implementing safe work procedures to minimise hazards
- procedures for monitoring and preparing stock for dispatch:
 - packing, dispatching and handling techniques of nursery plants
 - labelling containers
 - checking orders against stock prepared
 - hydrating stock
- procedures and responsibility for reporting problems and anomalies
- procedures for liaising with customers
- procedures for maintaining workplace records.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a plant nursery or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - PPE
 - equipment, services and corresponding information
 - nursery stock
 - hygiene procedures, materials and equipment
 - system for recording requirements and procedures
- specifications:
 - work procedures, including advice on company practices, safe work practices, plant quality and environmental requirements
 - work instructions and schedules.

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

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