



Australian Government

Assessment Requirements for FBPVIT3004 Monitor and maintain nursery plants

Release: 1

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Modification History

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

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 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.

Links

Companion Volume Implementation Guides are found in VETNet: -

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