Modification history

|  |  |
| --- | --- |
| Release | Comments |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0. |

| FBPVITXXX | Monitor and maintain nursery plants |
| --- | --- |
| 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, in accordance with State/Territory work 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. |
| Prerequisite Unit | Nil |
| Unit Sector | Viticulture (VIT) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Monitor environmental parameters | 1.1 Confirm job requirements  1.2 Identify potential workplace health and safety hazards and controls according to workplace procedures  1.3 Select and fit personal protective equipment according to the job 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 |
| 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 |
| FBPVIT3XXX 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  Removal of prerequisites as no longer required by industry | Equivalent unit |

|  |  |
| --- | --- |
| Links | Companion Volumes, including Implementation Guides, are available at VETNet:  <http://vetnet.education.gov.au/Pages/TrainingDocs.asp?q=78b15323-cd38-483e-aad7-1159b570a5c4> |

| TITLE | Assessment requirements for FBPVIT3XXX Monitor and maintain nursery plants |
| --- | --- |
| 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 workplace health and safety procedures * selecting and using personal protective equipment * 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 * maintaining 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 * work health and safety (WHS) hazards and controls: * selecting, fitting and using appropriate personal protective clothing and equipment * 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 nursey or an environment that accurately represents workplace conditions * resources, equipment and materials: * personal protective equipment * 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 * instructions, information, specifications 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 Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4 |