Modification history

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

| AHCPHT3009 | Monitor and maintain nursery plants |
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| Application | This unit of competency describes the skills and knowledge required to monitor and maintain containerised nursery plants.  The unit applies to individuals who work under broad direction and take responsibility for their own work.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.  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. |
| Prerequisite Unit | Nil |
| Unit Sector | Production horticulture (PHT) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Monitor environmental parameters | 1.1 Confirm work instructions and identify potential WHS hazards and controls in accordance with workplace procedures  1.2 Select and fit personal protective clothing and equipment according to the job requirements  1.3 Monitor environmental parameters against the production plan  1.4 Alter environmental parameters to meet the needs of the plants |
| 2. Determine daily water requirements | 2.1 Determine plant water requirements to maintain required health and growth  2.2 Irrigate plants according to their requirements  2.3 Monitor water requirements to specification |
| 3. Implement treatments to promote plant growth | 3.1 Test potting media to ensure specifications are met  3.2 Monitor overall health of plants in accordance with workplace procedures  3.3 Implement plant treatments according to production plans  3.4 Identify, rectify or report problems and anomalies according to workplace procedures |
| 4. Monitor the dispatch of stock | 4.1 Confirm availability of stock and timing of dispatch with customers  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. | |
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| Skill | Description |
| Reading | * Comprehend textual information from a variety of workplace documents accurately |
| Oral Communication | * Converse clearly using industry-specific language |
| Numeracy | * Calculate numerical information relating to measuring quantities, adjusting equipment controls and stock operations |
| Navigate the world of work | * Comply with policies and procedures * Recognise own work performance and seek assistance where required |
| Interact with others | * Respect diversity and inclusion in the workplace * Connect and work with others in teams cooperatively |
| Get the work done | * Plan and organise work efficiently * Identify and solve problems creatively * Use the main features and functions of digital tools to identify and apply information in wine industry operations * Recognise and act on opportunities for continuous improvement in accordance with workplace practices |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCPHT3009 Monitor and maintain nursery plants | FDFWGG3009A Monitor and maintain nursery plants | Updated to meet Standards for Training Packages  Code changed to reflect changed training package  Minor changes to performance criteria for clarity  Removal of prerequisites as no longer required by industry | Equivalent unit |

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| 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 AHCPHT3009 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 monitored and maintained containerised nursery plants and demonstrated the following at least once:   * identifying and using personal protective clothing and equipment and following work health and safety (WHS) procedures * identifying environmental factors and their effect on plant growth and health * monitoring and controlling irrigation and treatments to meet production outcomes * identifying and addressing anomalies and problems * confirming and maintaining 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 |
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| 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 * industry processes for new variety development * 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 * principles of nursery hygiene * monitoring work area to ensure they 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 * irrigation * monitoring health of the vines * preparing, mixing and using chemicals * optimum growing conditions for plants in a nursery * quality parameters for a range of nursery plants * symptoms of unhealthy plants * treatments required by plants at different growth stages and environmental parameters * packing, dispatching and handling techniques of nursery plants * 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: * labelling containers * checking orders against stock prepared * hydrating stock * environmental issues and controls * reporting and recording requirements and procedures * procedures and responsibility for reporting problems and anomalies * procedures for liaising with customers * procedures for monitoring work areas to ensure they meet workplace housekeeping standards * procedures for maintaining workplace records. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace or an environment that accurately represents workplace conditions * resources, equipment and materials: * personal protective clothing and equipment * equipment, services and corresponding information * nursery stock * hygiene procedures, materials and equipment * documentation and recording requirements and procedures * specifications: * work procedures, including advice on company practices, safe work practices, quality and environmental requirements * instructions, information, specifications and schedules * relationships: * customers.   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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