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. |

| FBPVIT2XXX | Carry out hot water treatment |
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| Application | This unit of competency describes the skills and knowledge required to treat grape vine cuttings with hot water to meet industry standards.  The unit applies to individuals who are required to follow workplace procedures to use hot water treatment for cuttings in a vineyard.  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 or legislative requirements are known to apply to this unit at the time of publication. Individuals undertaking this unit of competency in the workplace may require accreditation by the Australian Vine Improvement Association (AVIA). |
| Prerequisite Unit | Nil |
| Unit Sector | Viticulture (VIT) |

| 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. Prepare for hot water treatment | 1.1 Confirm job requirements  1.2 Confirm environmental guidelines and identify potential workplace health and safety hazards and controls according to workplace procedures  1.3 Select and fit appropriate personal protective equipment relevant to the job requirements  1.4 Ensure cuttings are available and ready for use  1.5 Clean and set up the hot water treatment (HWT) tank and cool down tank to remove foreign matter and contaminants according to industry standard  1.6 Check, maintain and calibrate equipment to meet production specifications  1.7 Prepare water for hot water treatment, hydration and cool down according to specifications |
| 2. Treat cuttings | 2.1 Load cuttings into treatment basket and lower into HWT according to workplace procedures  2.2 Monitor temperature and control parameters according to workplace procedures  2.3 Lower cuttings into the cool down tank according to workplace procedures  2.4 Identify and address non-conformances |
| 3. Carry out post-treatment procedures | 3.1 Unload treatment basket according to workplace procedures  3.2 Store and label treated cuttings according to workplace procedures  3.3 Check chlorine levels and sanitation requirements for water quality according to workplace procedures  3.4 Collect and dispose of waste according to workplace environmental and waste management procedures  3.5 Record treatment information and complete logs or batch information according to workplace requirements |

| 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 information from a variety of workplace documents |
| Writing | * Record hot water treatment information in required format |
| Numeracy | * Monitor temperature gauges and interpret numerical information relevant to the hot water treatment process |
| Navigate the world of work | * Apply workplace procedures to own role and responsibilities |
| Get the work done | * Respond to routine problems by referring to workplace procedures |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FBPVIT2XXX Carry out hot water treatment | FDFWGG2020A Carry out hot water treatment | Updated to meet Standards for Training Packages  Code changed to reflect industry sector  Minor changes to performance criteria for clarity | Equivalent unit |

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

| TITLE | Assessment requirements for FBPVIT2XXX Carry out hot water treatment |
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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 prepared hot water treatments, treated cuttings and carried out the post-treatment procedures on at least two separate occasions and demonstrated the following:   * identifying workplace health and safety hazards and controls * using personal protective equipment according to job requirements * applying current viticulture industry standards to heat treatment of cuttings * handling and treating cuttings according to workplace procedures * monitoring treatment process and responding according to workplace procedures * disposing of waste according to instructions and workplace procedures * maintaining records according to industry and 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:   * purpose and process of hot water treatment * setting up equipment for hot water treatment according to workplace procedures * preparing cuttings for treatment or re-hydration * preparing water for cool down, hot water treatment and hydration: * testing and adjusting chlorination levels * checking and adjusting temperature levels * current industry standards, legislation and workplace specifications for hot water treatments * reasons for using different specifications for hot water treatments * monitoring the dipping process to ensure compliance according to workplace procedures: * monitoring critical control points for compliance with specifications * analysing readouts from data logging devices * maintaining level of agitation in the tanks * maintaining chlorine level * recalibrating thermometers * procedures for storing treated cuttings: * separating from untreated cuttings to prevent contamination * covering with clean covers * placing cuttings in vented plastic bags to prevent dehydration * placing cuttings in the cold room * workplace health and safety hazards and controls when undertaking hot water treatments * principles of nursery hygiene * cleaning requirements and procedures for work area and equipment * environmental issues and controls: * identifying, rectifying and reporting environmental non-compliance * waste disposal requirements and procedures * reporting and recording according to workplace procedures. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a vineyard or an environment that accurately represents workplace conditions * resources, equipment and materials: * personal protective equipment used for heat treatment of vines * equipment, services and corresponding information * products and materials to be treated * equipment cleaning procedures and materials * system for recording requirements and procedures * specifications: * work procedures, including advice on company practices, safe work practices and environmental requirements * legislative and local quarantine regulations and codes of practice and industry standards for heat treatment of grape vines * 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. |

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