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. |

| AHCPHT3010 | Implement a soil management program |
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| Application | This unit of competency describes the skills and knowledge required to monitor soil requirements and implement and evaluate a soil management program.  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 vineyard soil management requirements | 1.1 Interpret and 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 vineyard soil and interpret results according to workplace standards  1.4 Identify and recommend appropriate soil management activities to supervisor for approval |
| 2. Implement soil management program | 2.1 Coordinate resources and brief personnel to undertake soil improvement  2.2 Implement approved soil management activities |
| 3. Evaluate effectiveness of soil management activities | 3.1 Monitor vineyard soil to evaluate effectiveness of activities  3.2 Monitor surrounding areas to evaluate environmental impact of soil management activities  3.3 Recognise, rectify or report problems and anomalies according to workplace procedures  3.4 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 |
| Writing | * Produce workplace documents using industry-based vocabulary, grammar and conventions |
| Oral Communication | * Converse clearly using industry-specific language |
| Numeracy | * Calculate numerical information relating to specifications, treatments and schedules |
| 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 |
| AHCPHT3010 Implement a soil management program | FDFWGG3010A Implement a soil management program | 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: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4 |

| TITLE | Assessment requirements for AHCPHT3010 Implement a soil management program |
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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 implemented and evaluated a soil management program and demonstrated the following at least once:   * ensuring use of work health and safety (WHS) procedures and personal protective clothing and equipment * determining requirements for vineyard soil management and making recommendations for approval * coordinating resources and activities to implement soil management program * monitoring and identifying problems and anomalies with the effectiveness of soil management program * completing workplace records. | |

| 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:   * soil management techniques and their effect on soil, vine growth, cropping levels and wine quality: * ideal soil environment for vines plus specific requirements of grapes grown * visual signs of vine nutrient deficiencies * sampling techniques and procedures * routine testing techniques and procedures * interpretation of routine tests * procedures for monitoring the vineyard and interpreting the results to identify vineyard soil management requirements, including: * soil moisture content * water table level * weed population * signs of vine nutrient deficiencies * climatic conditions * cover crop practices * soil analyses (e.g. pH and salinity) * evidence of hard pans * soil texture * vine root distribution * nutrient levels in plant and soil * irrigation water quality * climatic conditions * erosion risk * soil management history * growth of mid-row sward * procedures for planning and implementing the soil management program: * resources, including operators with appropriate skills * equipment availability and capability * materials and chemicals * maintenance programs and supplies * specific needs of individual blocks * environmental conditions * other vineyard activities * procedures for monitoring soil management activities: * operator performance * operating conditions * operating results * material supplies * equipment performance * work health and safety (WHS) hazards and controls: * accessing and interpreting workplace information to identify soil management requirements * selecting, fitting and using appropriate personal protective clothing and equipment * environmental issues and controls: * identifying, rectifying and reporting environmental non-compliance * procedures and responsibility for reporting problems * resource requirements and availability * reporting and recording requirements and procedures * consultation requirements and procedures * consulting with appropriate personnel: * presenting and justifying recommendations to senior personnel * instructing and supervising operators * application rates for soil addition * 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 soils and growing media * 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: * supervisor   team members. 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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