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. |

| AHCPHT3013 | Operate spreading and seeding equipment |
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| Application | This unit of competency describes the skills and knowledge required to attach, set up and detach spreading and seeding equipment that requires calibration.  The unit applies to individuals who complete spreading and seeding activities such as planting cover crops and ensuring deep incorporation of ameliorants and fertilisers. They 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. Prepare for operation | 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 job requirements  1.3 Ensure seeding or spreading materials are available to meet requirements  1.4 Prepare materials to meet requirements  1.5 Check materials and equipment are ready for use according to workplace requirements  1.6 Attach, set up and calibrate equipment to meet workplace requirements |
| 2. Operate equipment | 2.1 Start up and operate equipment safely according to operator instructions  2.2 Monitor equipment performance to ensure specifications are maintained  2.3 Identify, rectify or report out-of-specification equipment performance  2.4 Apply materials according to instructions  2.5 Recognise, rectify or report problems and anomalies in accordance with workplace procedures |
| 3. Complete operation | 3.1 Shut down equipment safely and according to operator instructions  3.2 Clean and store equipment according to workplace practices  3.3 Collect, treat, and dispose of waste generated by the process according to environmental and workplace practices  3.4 Conduct work to comply with workplace environmental guidelines  3.5 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 specifications, calibration and application rates |
| Navigate the world of work | * Follow clear instructions within defined level of responsibility * Recognise own work performance and seek assistance where required |
| Get the work done | * Recognise and act on opportunities for continuous improvement in accordance with workplace practices * Respond to routine problems using step-by-step instructions and procedures |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCPHT3013 Operate spreading and seeding equipment | FDFWGG3013A Operate spreading and seeding equipment | Updated to meet Standards for Training Packages  Code changed to reflect changed training package  Minor changes to elements and performance criteria for clarity  Removal of prerequisite 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 AHCPHT3013 Operate spreading and seeding equipment |
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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 set up, operated and shut down seed spreading equipment and demonstrated the following at least once:   * recognising work health and safety (WHS) hazards and applying controls * selecting and using personal protective clothing and equipment * ensuring availability of specified materials and prepare according to instructions * selecting and ensuring suitability of equipment for the task * attaching, setting up and calibrating equipment to meet application requirements * starting, operating and shutting down equipment in accordance with operation instructions and requirements of workplace and task * monitoring spreading or seeding operations to achieve specified result * performing emergency and routine shutdowns * taking corrective action in response to out-of-specification results or non-compliance * disposing of waste materials according to workplace and environmental policies * recording information accurately. | |

| 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:   * the purpose and application of spreading and seeding operations within the vineyard growing system, including: * soil ameliorants * inter-row cropping species and varieties * inter-row cropping practices and techniques * inorganic and organic fertilising materials * process specifications, procedures and operating parameters * application parameters for seed or spreading materials: * correct variety or type of seed and/or fertiliser * correct soil ameliorant and/or treatment * application rate * volume * application depth * density * coverage * required weather conditions for activity * soil characteristics as they apply to spreading and seeding operations: * structure * compaction * condition * texture * fertility and toxicity * moisture (too dry or waterlogged) * purpose and operation of seeding and spreading equipment and instrumentation components: * common causes of variation and corrective action required * significance and methods of monitoring equipment performance * storage procedures for equipment and materials * routine maintenance procedures for equipment * start up and shutdown sequence * equipment status and condition: * belts and chains * lubricants * hydraulics * air intake * tyre pressure and wear * wear and tear * selecting appropriate equipment for the task * attaching, setting up and calibrating equipment to meet application requirements * selecting, preparing and loading materials according to requirements * starting up equipment * operating equipment: * driving forward and reversing * operating in confined spaces * operating amongst other vineyard activities and a variety of conditions * cleaning equipment * preparing equipment for storage * storing equipment * monitoring equipment performance and application rates: * status and condition * handling and stopping * ground speed * actual versus expected usage of materials * ground coverage * blockages * conducting routine maintenance of equipment * environmental operating conditions * recognising equipment performance problems, and amending and reporting * work health and safety (WHS) hazards and controls: * material handling requirements * personal protective clothing and equipment * handling hazardous materials * procedures and responsibility for reporting problems * reporting and recording requirements and procedures * environmental issues and controls: * collecting, sorting, treating, disposing of and recycling waste * environmental compliance * cleaning requirements and procedures associated with changeovers and types of shutdowns * storage requirements associated with temporary or seasonal breaks in activity * procedures for maintaining work area to meet 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 * seeding or spreading products and materials * cleaning 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.   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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