Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 2.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0 and meets the Standards for Training Packages 2012. |

| AHCMOM312 | Operate row crop planting and seeding machinery and equipment |
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| Application | This unit of competency describes the skills and knowledge required to operate machinery and equipment required for row crop planting and seeding in an agriculture/horticulture setting.  The unit applies to individuals who apply operating principles to row crop planting and seeding machinery and equipment operation 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. |
| Prerequisite Unit | Nil. |
| Unit Sector | Machinery operation and maintenance (MOM) |

| 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 row crop planting and seeding machinery for use | 1.1 Confirm activity to be undertaken, including identifying and reporting potential hazards and implementation of safe working procedures  1.2 Read relevant planting and seeding machinery and equipment operation and maintenance manual and interpret manufacturer instructions  1.3 Select, correctly fit, use and maintain personal protective clothing and equipment  1.4 Conduct planting and seeding machinery and equipment routine pre-operational checks  1.5 Replace and report damaged or worn components  1.6 Attach ancillary equipment and check for correct operation |
| 2.Operate row crop planting and seeding machinery and equipment | 2.1 Operate planting and seeding machinery in a safe, controlled and efficient manner and monitor for performance and efficiency  2.2 Operate planting and seeding machinery according to operation and maintenance manual, manufacturer specifications, task requirements and conditions  2.3 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant, equipment and the environment and implement minimisation strategies |
| 3.Complete work | 3.1 Conduct shut down procedures  3.2 Perform routine operational servicing and minor maintenance  3.3 Identify and report malfunctions, faults, irregular performance or damage  3.4 Clean, store and secure planting and seeding machinery and equipment  3.5 Identify environmental and biosecurity implications associated with row crop planting and seeding, minimise impact and report to the supervisor  3.6 Maintain planting and seeding machinery use records |

| 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 | * Interpret textual information from a range of sources to identify relevant and key information about workplace operations |
| Writing | * Document planting and seeding machinery use |
| Oral communication | * Use clear language to report malfunctions, faults, irregular performance or damage * Participate in verbal exchanges to respond to questions and clarify information |
| Numeracy | * Identify correct tyre pressure |
| Navigate the world of work | * Recognise and follow workplace requirements, including safety requirements, associated with own role and area of responsibility |

| Range Of Conditions  This section specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. | |
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| Personal protective clothing and equipment must include: | * enclosed shoes * safety equipment and personal protective clothing and equipment applicable to the task being undertaken. |
| Pre-operational checks must include: | * machine damage and serviceability * checking for missing parts * condition of tyres. |
| Biosecurity implications must include: | * control of cross-site contamination. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM312 Operate row crop planting and seeding machinery and equipment | AHCMOM312A Operate row crop planting and seeding machinery and equipment | This unit is equivalent to AHCMOM312A Operate row crop planting and seeding machinery and equipment. Minor changes to performance criteria, foundation skills and range of conditions. | Equivalent |

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| Links | Companion Volumes, including Implementation Guides are available at VETNet https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72 |

| TITLE | Assessment requirements for AHCMOM312 Operate row crop planting and seeding machinery and 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, on at least one occasion, the individual has operated agricultural or horticultural row crop planting and seeding machinery and equipment and has:   * carried out planting and seeding machinery and equipment pre-operational checks according to operation and maintenance manual * performed minor maintenance * recognised and reported defects * attached and detached ancillary equipment * operated planting and seeding machinery and equipment according to operation and maintenance manual, manufacturer specifications, task requirements and conditions * followed planting requirements * minimised environmental impacts associated with row crop planting and seeding machinery and equipment operation * followed industry and workplace biosecurity procedures. | |

| 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:   * hazards and risks associated with row crop planting and seeding machinery and equipment operations * planting and seeding machinery and equipment components, controls, features, technical capabilities and limitations * manufacturer requirements and workplace requirements for: * pre-operational checks * machinery operation techniques * operator level servicing * shut down * emergency procedures * precision agriculture and controlled traffic * environmental impacts associated with operating machinery and equipment used for row crop planting and seeding * workplace procedures applicable to work health and safety and row crop planting and seeding machinery and equipment operation * industry and workplace biosecurity procedures. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace setting or an environment that accurately represents workplace conditions * in a range of weather and surface conditions * individual must not be under the influence of alcohol or drugs * individual must not be taking any medication (prescribed or otherwise) that may impair judgement * individual must not be in a fatigued state when operating row crop planting and seeding machinery * resources, equipment and materials: * row crop planting and seeding machinery and equipment * safety equipment and personal protective clothing and equipment applicable to the task being undertaken * specifications: * row crop planting and seeding machinery and equipment operation and maintenance manuals * industry and workplace biosecurity procedures applicable to row crop planting and seeding * relationships: * supervisors * timeframes: * according to the job requirements.   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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