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. |

| AHCMOM311 | Operate precision control technology |
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| Application | This unit of competency describes the skills and knowledge required to operate precision technology used in the control of specialised machinery and equipment. This unit is used to optimise specialised machinery performance.  All work must be carried out to comply with workplace procedures, workplace health and safety requirements, manufacturer specifications, sustainability and biosecurity practices.  This unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection and use of available resources.  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 precision technology 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 precision control technology operation and maintenance manual and observe manufacturer instructions  1.3 Conduct precision control technology routine pre operational checks  1.4 Record minor routine servicing and housekeeping tasks  1.5 Check ancillary equipment for correct operation  1.6 Check that data complies with job specifications |
| 2.Use precision technology | 2.1 Operate precision control technology according to operation and maintenance manual, manufacturer specifications, task requirements and conditions  2.2 Monitor activities to ensure that machinery is operating in an efficient and controlled manner and make adjustments as required  2.3 Monitor and assess 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 Download data and complete operational records  3.3 Perform basic diagnostic procedures  3.4 Identify and report malfunctions, faults and irregular performance or damage |

| 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 | * Record minor servicing and housekeeping tasks * Complete operational records |
| Numeracy | * Check and compare precision control technology data against job specifications * Download and interpret precision control technology data and record in operational records |
| 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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| precision control technology must include at least one of the following: | * on-board GPS, GNSS or DGPS precision control equipment * fixed GPS, GNSS or DGPS precision control equipment. |
| pre operational checks must include at least one of the following: | * precision control technology equipment damage and serviceability * ASC measurement check * equipment dimension check * GPS offset setting. |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCMOM311 Operate precision control technology | AHCMOM311A Operate precision control technology | This unit is equivalent to AHCMOM311A Operate precision control technology. 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 AHCMOM311 Operate precision control technology |
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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 machinery using precision technology and has:   * identified and reported workplace health and safety hazards * carried out precision control technology pre operational checks according to operation and maintenance manual * used technology to operate machinery in an efficient and controlled manner * performed routine maintenance tasks * performed basic diagnostic procedures * downloaded and uploaded data for the task. | |

| 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:   * manufacturer specifications and requirements for: * pre-operational checks * precision instrument controls, feature and functions * minor servicing * uploading and downloading of data * diagnostic techniques for operational performance * characteristics, technical capabilities and limitations of associated machinery and equipment * components and controls features and functions of equipment. |

| 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 * 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 precision control technology equipment * resources, equipment and materials: * precision control technology equipment * specifications: * precision control technology equipment operation and maintenance manuals * 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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