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. |

| AHCMOM315 | Operate chemical application machinery and equipment |
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| Application | This unit of competency describes the skills and knowledge required to operate machinery and equipment used for specialised liquid and granular chemical application in an agriculture/horticulture setting.  This unit applies to individuals who apply legislative and regulatory requirements and operating principles to chemical application 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 chemical application 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 chemical application 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 chemical application machinery and equipment routine pre-operational checks  1.5 Replace and report damaged or worn components  1.6 Set up and calibrate equipment in accordance with application plan  1.7 Attach ancillary equipment and check for correct operation  1.8 Record pre-operational checks |
| 2.Operate chemical application machinery and equipment | 2.1 Operate chemical application machinery and in a safe, controlled and efficient manner and monitor for performance and efficiency  2.2 Operate chemical application 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  2.4 Assess and minimise spray drift risk  2.5 Monitor meteorological conditions before and during application and respond to changes in conditions  2.6 Wear personal protective clothing equipment during operation and clean up |
| 3.Complete work | 3.1 Conduct shut down procedures  3.2 Flush and clean components according to manufacturer specifications and chemical label requirements  3.3 Perform routine operational servicing and minor maintenance  3.4 Identify and report malfunctions, faults, irregular performance or damage  3.5 Clean, store and secure chemical application machinery and equipment  3.6 Identify environmental and biosecurity implications associated with chemical application, minimise impact and report to the supervisor  3.7 Complete operational records according to legislative and regulatory 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 | * Interpret textual information from a range of sources to identify relevant and key information about workplace operations |
| Writing | * Document chemical application machinery use * Complete operational records |
| 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 | * Estimate, calculate and record quantities of liquid and/or granular chemicals * 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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| Chemical application machinery and equipment must include at least one of the following: | * specialised liquid chemical application machinery * specialised granular application machinery * machinery and equipment used for crop protection and pest management. |
| Personal protective clothing and equipment must include: | * protective clothing * respirators * protective eyewear * unlined rubber or plastic gloves * neoprene or nitrile boots * 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 |
| AHCMOM315A Operate chemical application machinery and equipment | AHCMOM315A Operate chemical application machinery and equipment | This unit is equivalent to AHCMOM315A Operate chemical application 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 AHCMOM315 Operate chemical application 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 calibrated, operated and cleaned specialised liquid and granular chemical application machinery and equipment and has:   * identified hazards and implemented safe work procedures * carried out chemical application machinery and equipment pre-operational checks according to operation and maintenance manual * performed minor maintenance * recognised and reported defects * attached and detached ancillary equipment * calibrated and set up application components * operated chemical application machinery according to operation and maintenance manual, manufacturer specifications, task requirements and conditions * assessed and minimised spray drift risk * completed operational records according to legislative and regulatory requirements * minimised environmental impacts associated with chemical application 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 chemical application machinery and equipment operations * chemical application 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 * features and functions of chemical application equipment components including: * liquid spray; nozzles, tanks, agitation systems, pumps, filters, pressure regulation valves * granular applicators/dusters; hoppers, flow control valves * effects of meteorological conditions on chemical application * legislative and regulatory requirements applicable to chemical application * workplace procedures applicable to work health and safety and chemical application machinery and equipment operation * environmental impacts associated with operating chemical application machinery and equipment including spray drift * 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 * 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 chemical application machinery * resources, equipment and materials: * chemical application machinery and equipment * protective clothing * respirators * protective eyewear * unlined rubber or plastic gloves * neoprene or nitrile boots * safety equipment and personal protective clothing and equipment applicable to the task being undertaken * specifications: * chemical application machinery and equipment operation and maintenance manuals and manufacturer specifications * legislative and regulatory requirements applicable to chemical application * industry and workplace biosecurity procedures applicable to chemical application * relationships: * team members/supervisors or realistic scenarios or role plays * 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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