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 3.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCCHM306 | Prepare and apply chemicals for hand held application equipment |
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| Application | This unit of competency describes the skills and knowledge required to prepare a basic application plan, prepare chemicals and equipment and apply chemicals for the control of identified pests, weeds or diseases using hand held application equipment.  The unit applies to individuals who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and for solving problems.  State or Territory licensing, legislative or certification requirements apply in some jurisdictions. |
| Prerequisite Unit | Nil |
| Unit Sector | Chemicals (CHM) |

| 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. Determine the need for chemical use and prepare basic application plan | 1.1 Identify the characteristics of the pest, weed or disease and assess the control requirements  1.2 Assess and select a chemical control option according to workplace procedures  1.3 Identify health and safety hazards, risks and controls for selected chemical  1.4 Determine the requirement for chemical usage according to chemical label instructions  1.5 Prepare a basic application plan according to workplace procedures  1.6 Notify stakeholders of intended chemical application according to workplace procedures and legislative and regulatory requirements |
| 2. Prepare chemical mixes | 2.1 Access the application plan and determine chemical application parameters according to chemical label instructions  2.2 Identify hazards, assess risks and implement control measures for application method according to chemical label and workplace health and safety procedures  2.3 Interpret and apply requirements from chemical labels and safety data sheets  2.4 Identify, select and use personal protective equipment according to chemical label and workplace safety procedures  2.5 Select appropriate mixing equipment and a suitable location for mixing and loading according to workplace procedures  2.6 Prepare chemicals according to chemical label instructions  2.7 Clean preparation equipment and work site of residues and spillage according to chemical label instructions and workplace procedures |
| 3. Calibrate application equipment | 3.1 Select application equipment to be used to minimise spray drift risk and maximise efficacy  3.2 Carry out pre-operational checks of application equipment  3.3 Calibrate equipment in accordance with manufacturers’ specifications and application plan  3.4 Load the equipment with chemical according to operating instructions and workplace safety procedures |
| 4. Apply chemicals | 4.1 Monitor and assess weather conditions and forecasts to ensure effective chemical application according to application plan  4.2 Identify, select and use personal protective equipment according to chemical label instructions  4.3 Apply chemical according to label directions safety data sheets and application plan  4.4 Assess health and safety hazards and risks and implement controls according to workplace procedures  4.5 Clean up chemical spills according to workplace and manufacturer procedures |
| 5. Clean up equipment and complete records | 5.1 Clean and decontaminate application equipment according to operator instructions, safety data sheets and legislative and regulatory requirements  5.2 Dispose of chemicals and used containers according to manufacturer instructions and legislative and regulatory requirements  5.3 Clean and store personal protective equipment according to workplace procedures  5.4 Complete chemical treatment records and report incidents according to workplace procedures and 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 | * Reads and interprets safety data sheets, signs and symbols, chemical labels, equipment operating instruction and other documentation and consolidates information to determine chemical application actions and activity |
| Writing | * Accurately records and completes organisational records using clear language and correct spelling, grammar and terminology |
| Numeracy | * Performs mathematical calculations to determine rates of application chemical mixtures |
| Oral Communication | * Effectively participates in verbal exchanges using active listening and to convey and clarify chemical applications notifications |
| Navigate the world of work | * Takes responsibility for following policies, procedures and regulations * Identifies and implements manufacturer requirements for chemical use |
| Get the work done | * Takes responsibility for planning, sequencing and prioritising tasks required for chemical application activities |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCCHM306 Prepare and apply chemicals for hand held application equipment | AHCCHM306 Prepare and apply chemicals for hand held application equipment | Updated to meet Standards for Training Packages  Changes to Performance Criteria for clarity | 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=c6399549-9c62-4a5e-bf1a-524b2322cf72 |

| TITLE | Assessment requirements for AHCCHM306 Prepare and apply chemicals for hand held application 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 demonstrated that they have prepared and applied chemicals using hand held application equipment including:   * determined the need for chemical application by assessing the specific infestation * developed an application plan according to workplace procedures * identified health and safety hazards, risk and implemented control procedures and used personal protective equipment according to workplace procedures * interpreted chemical labels and applied chemical according to manufacturer requirements, safety data sheets and application plan * determined the chemical application parameters according to workplace and manufacture requirements * monitored and assessed weather conditions for application * selected and conducted pre-operational checks according to operator instructions * completed at least 1 calibration activity for hand help application equipment * mixed and loaded chemicals in accordance with label and application plan * applied chemicals safely according to labels, regulations and workplace requirements * cleaned equipment, spills and disposed of waste according to procedures * maintained records and reported incidents according to workplace procedures and regulations. | |

| 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:   * control options when selecting chemicals for pest, disease and weed control, including: * chemical * cultural * biological * Integrated Pest Management * parameters affecting the selection of chemical and equipment for application, including: * common pests, weeds and diseases * rate of application * type of application equipment * set-up requirements. * pest and disease resistance * chemical labels, safety data sheets reading and interpretation * impact of weather factors on the safe and effective application of chemicals * factors that determine off target contamination, including: * physical movement of chemicals (e.g. animals moving baits or soil movement) * chemical formulation * droplet size * wind speed * temperature * temperature inversions * controlling spray drift and air concentrations * risk factors of chemical application, including: * human and animal health * spillage * residues in environment, plants and animals * withholding periods * preparing chemicals including mixing order, compatibility, adjuvants and water quality * requirements for disposal of excess chemicals, clearing spillages and equipment clean up * selecting and operating suitable application equipment * hand held application equipment, including: * operation and use * features, functions * calibration techniques * nozzle identification and selection * legislation, regulations and licensing requirements in relation to chemical use * stakeholders and required notifications including, neighbours, staff and statutory notifications * regulatory and industry policies on spray drift management. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a typical workplace environment or an environment that accurately represents workplace conditions * resources, equipment and materials: * use of chemicals * use of personal protective equipment * access to application equipment * access to chemical measuring and mixing equipment * specifications: * use of specific workplace documents such as work instructions and procedures for chemical application * access to chemical labels and safety data sheets * access to regulations, relevant to use of chemicals * access to manufacturers operation and maintenance instructions for equipment * access to weather reports.   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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