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 assess the need and select, prepare and apply chemicals for the control of pests using hand held application equipment.  This unit applies to individuals who work under broad direction and take responsibility for their own work and use discretion and judgement in the selection and use of available resources.  Licensing requirements apply to this unit but vary according to state/territory jurisdictions. Users are advised to check with their relevant regulatory authority. |
| 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 infestation and assess the control requirements according to workplace standards  1.2 Assess and select a chemical control option according to workplace pest control strategy  1.3 Identify hazards and risks and assess the controls for the chemical options  1.4 Determine the requirement for chemical option according to manufacturer requirements  1.5 Prepare a basic application plan according to workplace procedures |
| 2.Prepare chemical mixes | 2.1 Access the application plan and determine chemical application parameters according to chemical manufacturers instructions  2.2 Identify health and safety hazards and risks and implement control measures for application method according to workplace health and safety procedures  2.3 Interpret and apply requirements from manufacturer chemical labels and safety data sheets  2.4 Identify, select and use personal protective equipment according to workplace safety procedures  2.5 Select appropriate mixing equipment and a suitable location for mixing and charging according to workplace procedures  2.6 Mix chemicals according to manufacturer instructions and registered use  2.7 Clean mixing equipment and spills according to manufacturer instructions and workplace procedures  2.8 Notify stakeholders of intended chemical application according to workplace procedures and regulatory requirements |
| 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 Charge the equipment with chemical mix according to operating instructions and workplace safety procedures |
| 4.Apply chemicals | 4.1 Monitor and assess weather conditions and forecasts prior to minimise off target movement of chemicals  4.2 Select and use appropriate PPE according to manufacturer recommendations and workplace procedures  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 workplace  5.2 Dispose of chemicals and used containers according to manufacturer instructions 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 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, labels, manufacturer instructions, 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 [text] 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:   * options for pest, disease weed control including: * chemical * cultural * biological * Integrated Pest Management * pest and disease resistance * chemical labels, SDS formats * impact of weather factors on the safe and effective application of chemicals * factors that determine off target contamination including: * 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 * mixing chemicals including mixing order, adjuvants and water quality * requirements for disposal of excess chemicals, clearing spillages and equipment clean up * selecting and operating suitable application equipment * features, functions and calibration techniques for hand held application equipment including, nozzle identification, selection, operation and use * legislation, regulations and licensing requirements in relation to chemical use * regulatory and industry policies on spray drift management * parameters affecting the selection of chemical and equipment for application including, common pests, weeds and diseases, rate or dose, type of application equipment, set-up requirements and amount to be applied. |

| 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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