Modification history

|  |  |
| --- | --- |
| 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. |

| AHCCHM402 | Plan and implement a chemical use program  |
| --- | --- |
| Application | This unit of competency describes the skills and knowledge required assess and mitigate risks and plan and implement a program for chemical use according to health, safety and pesticide legislation, codes of practice, and environmental practices.The unit applies to individuals who take responsibility for their own work and may provide direction to others. They provide and communicate solutions to a range of predictable and sometimes unpredictable problems. Work is carried out to industry standards.No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Chemicals (CHM) |

| Elements | Performance Criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1.Identify requirements for chemical use | 1.1 Identify, source and interpret information required for planning and implementing a chemical use program1.2 Assess the need for chemical use as an option 1.3 Ensure that personnel are adequately trained in chemical use according to workplace procedures |
| 2.Assess risks and develop control procedures | 2.1 Identify hazards, assess risks and develop control measures and emergency action plans for chemical use operational activities2.2 Assess weather conditions and forecasts to determine implications for off target contamination2.3 Assess the sensitivity of target area and impact of chemical on the environment according to chemical manufacturer instructions and safety data sheets2.4 Assess the risk to human and animal health according to manufacturer instructions and safety data sheets2.5 Analyse assessments and document risk control procedures for the chemical application plan according to workplace protocols |
| 3.Develop an operational and maintenance program for chemical use | 3.1 Determine chemicals to be used according to workplace pest management strategy3.2 Calculate mixing requirements for chemicals according to manufacturer instructions and workplace procedures3.3 Document operational checks and calibration requirements for equipment according to operators instructions and manufacturer specifications3.4 Develop and implement an operational and maintenance strategy for application equipment and personal protective equipment according to health and safety practices3.5 Document operational and maintenance procedures for chemical application plan according to workplace protocols |
| 4.Implement and monitor chemical application plan | 4.1 Provide personnel with chemical use procedures, instruction and safety equipment for chemical application plan4.2 Monitor adherence with safe practice for preparation and application of chemicals according to chemical application plan4.3 Monitor adherence to procedures for transport, handling, storage, decontamination and disposal of chemicals according to chemical application plan4.4 Monitor adherence to maintenance procedures according to chemical application plan4.5 Monitor adherence to residue procedures for produce and environment according to chemical application plan |
| 5.Finalise work activities in accordance with chemical application plan | 5.1 Ensure excess chemicals are disposed of according to waste management and environment procedures 5.2 Ensure required records are completed according to operational and work, health and safety procedures |
| 6.Evaluate chemical application plan and records for continuous improvement | 6.1 Develop procedures for evaluating the effectiveness of chemical application plan 6.2 Identify and document shortfalls in chemical application plan6.3 Develop a continuous improvement strategy to rectify the chemical application plan |

| Foundation SkillsThis 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. |
| --- |
| Skill | Description |
| Reading | * Critically analyses and consolidate information to determine chemical control procedures and develop chemical application plan
 |
| Writing | * Develops procedural material using clear and detailed language in order to convey explicit risk control information
 |
| Oral Communication | * Presents complex information using clear and convincing language, tone and pace appropriate when briefing personnel on chemical application plan
 |
| Navigate the world of work | * Works independently or with others in making decisions to achieve organisation outcomes
* Contributes to roles and responsibilities of others through implementation of plans
* Takes full responsibility for following policies, procedures and legislative requirements
 |
| Interact with others | * Implements strategies for a diverse range of colleagues in order to build rapport and foster strong relationships when instructing and monitoring performance
* Elicits feedback and provides feedback to others in order to improve workgroup behaviours and update plans
 |
| Get the work done | * Accepts responsibility for planning and sequencing complex tasks and workload
* Monitors progress of procedures and reviews and amends them to meet demands and priorities
* Applies systematic and analytical decision making processes for complex and non-routine situations
 |

|  |
| --- |
| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCCHM402 Plan and implement a chemical use program | AHCCHM402 Plan and implement a chemical use program | Updated to meet Standards for Training PackagesChanges to Performance Criteria for clarity and added PC in Element 6. | Equivalent unit  |

|  |  |
| --- | --- |
| 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 AHCCHM402 Plan and implement a chemical use program |
| --- | --- |
| 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 planned and implemented a chemical use program including:* sourced information and analysed its content for chemical application
* assessed the need for chemical use and ensured personnel are adequately trained in chemical use
* identified hazards, risks and controls for chemical application and off target impact
* assessed weather conditions and environmental sensitivity of the site
* documented chemical application and maintenance procedures
* determined chemicals required, mixing requirements
* develop a continuous improvement strategy to minimise risk
* communicated chemical application plan to personnel
* implemented procedures and monitored and evaluated personnel using procedures
* developed a continuous improvement strategy for chemical application plan
* implemented, monitored and evaluated a chemical application plan
 |

| Knowledge Evidence |
| --- |
| 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:* source of information for developing plans including:
* legislation and regulations
* Codes of Practice
* chemical manufacturer labels
* safety data sheets
* industry requirements relating to chemical use
* strategies for identifying hazard, risks and controls
* risk factors including:
* human
* animal health
* product integrity
* weather
* residues and maximum residue levels
* spray drift, spillage and environment
* principles of transport, handling and storing chemicals
* requirements for the disposal of excess chemicals, clearing spillages and equipment clean up
* chemical application equipment capabilities, limitations and calibration
* mixing chemicals including:
* rates
* mixing order if more than one chemical
* adjuvants
* water quality
* life cycle of a variety of pests and the target stages
* implications of pest resistance to chemicals
* principles and practices of chemical application strategies and equipment including, integrated pest management and animal health strategies
* signs of pest damage and signs of beneficial organisms
* operational factors to consider in a procedures including:
* transport, handling and storage
* application methods and equipment
* cleaning and decontamination
* disposal of waste
* emergency procedures including first aid
* record keeping requirements for chemical application and managing risk.
 |

| Assessment Conditions |
| --- |
| Competency is to be assessed in the workplace OR simulated environment that accurately reflects performance in a real workplace setting.Assessment of skills must take place under the following conditions: * physical conditions:
* skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* use of specific tools and equipment required to implement the chemical application program
* use of specific items of personal protective equipment
* use of chemicals and relevant weighing and mixing equipment
* specifications:
* use of specific workplace documents including policies and processes
* use of manufacturer’s operating instructions for chemicals, equipment and machinery
* access to safety data sheets
* use of workplace instructions and job specifications to inform personnel
* access to types of chemical information including legislation, codes of practice, manufacturer instructions
* relationships:
* team member(s) or work crew
* timeframes:
* schedules and planned completion dates for a chemical application plan.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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