



Australian Government

AHCCHM405 Plan and implement a chemical use program

Release: 1

AHCCHM405 Plan and implement a chemical use program

Modification History

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

Application

This unit of competency describes the skills and knowledge required to assess and control the risks associated with chemical use and to plan and implement a program for chemical use.

The unit applies to individuals who take responsibility for their own work and provide direction to others. All work must be carried out to comply with workplace procedures, in accordance with applicable state/territory health and safety in the workplace, pesticide and environmental legislation and codes of practice.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Chemicals (CHM)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify requirements for chemical use	1.1 Identify, source and interpret information required for planning and implementing a chemical use program 1.2 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	2.1 Identify hazards, assess risks and develop control measures and

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
develop control procedures	emergency action plans for chemical use operational activities 2.2 Assess weather conditions and forecasts to determine implications for off target contamination 2.3 Assess the sensitivity of target area and impact of chemical on the environment according to chemical label instructions and safety data sheets (SDS) 2.4 Assess the risk to human and animal health according to chemical label instructions and SDS 2.5 Analyse assessments and document risk control procedures for the chemical application plan according to workplace procedures
3. Develop an operational and maintenance program for chemical use	3.1 Determine chemicals to be used according to workplace pest management strategy 3.2 Calculate mixing requirements for chemicals according to chemical label instructions and workplace procedures 3.3 Document operational checks and calibration requirements of equipment according to operators instructions and manufacturer specifications 3.4 Develop and implement an operational and maintenance strategy for application equipment and personal protective equipment according to health and safety practices 3.5 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, and instruction on safety equipment for chemical application plan 4.2 Monitor adherence with safe practice for preparation and application of chemicals according to chemical application plan 4.3 Monitor adherence to procedures for handling, transport, storage, decontamination and disposal of chemicals according to chemical application plan 4.4 Monitor adherence to maintenance procedures according to chemical application plan 4.5 Monitor adherence to residue procedures for product and environment according to chemical application plan
5. Finalise work activities in accordance	5.1 Ensure excess chemicals are disposed of according to waste management and environment procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
with chemical application plan	5.2 Ensure required records are completed according to operational and workplace, 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 plan 6.3 Develop a continuous improvement strategy to rectify the chemical application plan

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.

Skill	Description
Reading	Critically analyse and consolidate information to determine chemical control procedures and develop chemical application plan
Writing	Develop procedural material using clear and detailed language in order to convey explicit risk control information
Oral Communication	Present complex information using clear and convincing language, tone and pace appropriate when briefing personnel on chemical application plan
Navigate the world of work	- Work independently or with others in making decisions to achieve organisation outcomes - Contribute to roles and responsibilities of others through implementation of plans - Take full responsibility for following policies, procedures and legislative requirements
Interact with others	- Implement strategies for a diverse range of colleagues in order to build rapport and foster strong relationships when instructing and monitoring performance - Elicit feedback and provides feedback to others in order to improve workgroup behaviours and update plans
Get the work done	Accept responsibility for planning and sequencing complex tasks and workload

Skill	Description
	• Monitor progress of procedures and reviews and amends them to meet demands and priorities • Apply 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
AHCCHM405 Plan and implement a chemical use program	AHCCHM402 Plan and implement a chemical use program	Changes to Performance Criteria for clarity and added PC in Element 6. Removal of prerequisite units Updated Performance Evidence and Knowledge Evidence	Equivalent unit

Links

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

Assessment Requirements for AHCCHM405 Plan and implement a chemical use program

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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 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 according to workplace procedures
- identified hazards, risks and provided controls, including personal protective equipment (PPE) for chemical application and off target impact
- assessed weather conditions and environmental sensitivity of the site
- documented chemical application and maintenance procedures according to workplace protocols
- determined chemicals required and mixing requirements according to workplace procedures and chemical label instructions
- develop a continuous improvement strategy to minimise risk
- communicated chemical application plan to personnel
- implemented procedures and monitored and evaluated personnel according to chemical application plan
- 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 labels
 - safety data sheets (SDS)

- 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
 - off target damage, 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
- preparation and documentation of strategic plans and procedures
- signs of pest damage and signs of beneficial organisms
- operational factors to consider in a procedures, including:
 - transport, handling and storage
 - application methods, equipment and PPE
 - cleaning and decontamination
 - disposal of waste
- emergency procedures including first aid
- strategies for instructing personnel, and monitoring and assessing personnel performance
- mandatory and workplace record keeping requirements for chemical storage, disposal, application and safety.

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:
 - tools and equipment required to implement the chemical application program
 - PPE
 - chemicals and relevant weighing and mixing equipment
- specifications:
 - specific workplace documents including policies and processes
 - manufacturers' operating instructions for chemicals, equipment and machinery
 - SDS
 - workplace instructions and job specifications
 - chemical information including legislation, codes of practice, chemical label 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

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