



Australian Government

AHCCHM501 Develop and manage a chemical use strategy

Release: 2

AHCCHM501 Develop and manage a chemical use strategy

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.

Application

This unit of competency describes the skills and knowledge required to develop and manage a chemical use strategy, including assessment of the risk of chemical transport, storage and handling.

The unit applies to individuals who take personal responsibility and exercise autonomy in undertaking complex work. They demonstrate a deep understanding in a specific technical area.

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 and evaluate need for chemical use	1.1 Evaluate pest control strategies and their relevance to workplace requirements 1.2 Identify, assess and incorporate external factors that influence the chemical use strategy according to workplace conditions, legislation

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and codes of practice 1.3 Document requirements for chemical use strategy according to workplace requirements, legislation and codes of practice 1.4 Identify and review available chemicals and their methods of application and assess the relevance to the workplace requirements
2. Develop a chemical use risk management strategy	2.1 Identify and assess health and safety in the workplace hazards in the handling, transportation and storage of chemicals 2.2 Identify and document risk factors associated with the use of chemicals 2.3 Identify health and safety in the workplace hazards, risks and develop control measures according to regulatory requirements 2.4 Develop a risk management strategy for chemical use according to legislation and workplace principles 2.5 Research and document insurance cover for intended chemical use according to workplace guidelines
3. Develop and implement procedures for chemical management and use	3.1 Develop procedures for management and use of chemicals according to workplace guidelines 3.2 Develop and document procedures for risk control measures according to workplace guidelines 3.3 Develop and document procedures for communicating with stakeholders according to workplace guidelines 3.4 Distribute information on procedures for chemical management and use to stakeholders
4. Identify training and supervision needs and solutions for chemical use in the workplace	4.1 Develop a strategy for training, assessing and supervising personnel involved in chemical use according to workplace guidelines 4.2 Organise and provide suitable training and assessment for implementation of chemical use strategy
5. Monitor and evaluate the implementation of a chemical use strategy	5.1 Monitor the implementation of the chemical use strategy according to regulatory requirements and workplace procedures 5.2 Evaluate the effectiveness of the chemical use strategy and identify underperformances 5.3 Rectify underperformances in implementation according to workplace policies and procedures

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	Organise, evaluate and critique ideas and information from a wide range of complex texts
Writing	Prepare strategies expressing ideas, exploring complex issues and construct logical, succinct and accurate procedures
Oral Communication	Establish and maintain complex and effective communications with key stakeholders
Navigate the world of work	- Work autonomously making high level decisions to achieve and improve organisational strategies - Develop and implement strategies that ensures organisational policies, procedures and regulatory requirements are being met
Interact with others	- Develop and implement communications strategies with internal and external persons in order to build rapport - Use a variety of relevant communication tools and strategies in building and maintaining effective working relationships
Get the work done	- Plan strategic priorities and outcomes within a flexible, efficient and effective context in a diverse environment exposed to competing influences - Identify key factors that impact on decisions and their outcomes, drawing on experience, competing priorities, and decision making strategies

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCCHM501 Develop and manage a chemical use strategy Release 2	AHCCHM501 Develop and manage a chemical use strategy Release 1	Minor changes to Performance Criteria for clarity 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 AHCCHM501 Develop and manage a chemical use strategy

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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 developed and managed a chemical use strategy, including:

- evaluated pest control strategies for workplace requirements
- identified, assessed and incorporated external factors, legislation, codes of practice and industry requirements into chemical use strategy
- reviewed available chemicals and their method of application and assessed their relevance to the workplace
- identified and assessed hazards and risks and developed control measures for a risk management strategy according to legislation and workplace guidelines
- researched and documented insurance cover for chemical use in the workplace
- developed procedures for management and use of chemicals according to workplace guidelines, including:
 - risk control measures
 - communication strategy to inform stakeholders of the chemical use strategy
- developed procedures that comply with legislation and workplace guidelines
- distributed information on procedures for chemical management to stakeholders
- developed and implemented a strategy for upskilling and supervising personnel for chemical use
- monitored the implementation of the chemical use strategy and evaluated and rectified underperformances, according to workplace procedures.

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:

- principles of a chemical control strategies, including:
 - relevant legislation, codes of practice and industry requirements covering health and safety in the workplace, hazardous substances, environment and food safety
 - workplace and regulatory requirements and options for the keeping of records
 - documentation
- hazards to human health, agricultural produce, and all aspects of the environment and non-target species of flora and fauna associated with the transport, storage, handling, application and disposal of chemicals, including:
 - routes of entry of chemicals into the body and the implications of this on chemical use management strategies
 - safety procedures including the maintenance, use, fit and decontamination of personal protective equipment (PPE)
 - monitoring of staff health exposed to chemicals according to regulatory requirements
 - emergency procedures for safety incidents involving chemicals
 - purpose and role of chemical labels and safety data sheets (SDS) in determining chemical transport, storage, handling, application and disposal procedures and practices to all staff
- external factors that affect chemical use, including:
 - influence of meteorological factors (wind, temperature, humidity, rain) on quality of chemical application, drift potential, effectiveness and efficacy of use
 - elements of a spray drift management strategy including measures to assess the potential for spray drift and prevent or control its occurrence
- pest control strategies and their benefits in terms of risk management and evaluation, including:
 - chemical
 - biological
 - cultural
 - Integrated Pest Management
 - Integrated Resistance Management
 - Integrated Animal Health Management
 - off-label chemical application and procedures
- equipment required, calibration and operation
- principles of residue effects and their management, including:
 - persistence in soil and water
 - accumulation in agricultural produce
 - rate of breakdown of residues in produce and in the environment
 - withholding periods
 - ways in which residues can occur
 - maximum residue levels
 - movement of and persistence and degradation of different types of chemicals
 - industry waste agreements

- source and purpose of insurance for use, transportation and storage of chemicals
- communication and negotiation strategies with stakeholders including community, workers and management, including informing on:
 - staff responsibilities
 - how to act in an emergency
 - neighbours when chemical spraying is planned
 - make agencies aware when accidents occur
- types of training needs including internal and external
- monitoring methods and procedures including periodical reviews of procedures, workplace records.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a workplace with pest control requirements personnel and physical resources to implement and monitor chemical use strategy or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - chemicals and spray equipment appropriate to control strategy
 - PPE
- specifications:
 - workplace documents including policies, procedures and processes to help formulate the chemical use strategy
 - manufacturers' operating and calibration instructions for equipment used in implementation to inform the procedures within the strategy
 - SDS
 - workplace instructions and procedures for implementing chemical use strategy
 - specific legislation, regulations and codes of practice
- relationships:
 - • work team tasked with chemical control activities.

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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