



Australian Government

Assessment Requirements for AHCCHM307 Prepare and apply chemicals to control pest, weeds and diseases

Release: 1

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Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has on at least one occasion demonstrated the ability to safely prepare and apply chemicals ensuring they have:

- determined and confirmed the need for chemical application by assessing the infestation, off target risk, and environmental risks
- developed an application plan for chemical application
- identified health and safety hazards, risk and implemented control procedures according to chemical label
- notified stakeholders of planned chemical application
- used personal protective equipment (PPE) according to workplace procedures
- interpreted chemical labels and applied chemical according to safety data sheets (SDS) and application plan
- identified and selected the chemical required for the target and calculated the amount and rates required according to chemical label
- identified and selected application equipment and suitable location, and determined the set up parameters according to application plan and operator instructions
- monitored and assessed weather conditions and equipment performance to ensure effective chemical application
- selected, conducted pre-operational checks according to operator and maintenance manual
- completed at least one calibration activity for application equipment
- prepared and loaded chemicals and returned unused chemicals to store in accordance with label, application plan and workplace procedures
- applied chemicals safely according to chemical labels, regulations and workplace procedures
- complied with chemical labels, SDS, regulations, maintenance manual, environmental procedures, operator instructions and application plan
- cleaned equipment and spills, and disposed of waste according to workplace and environmental procedures

- maintained records and reported incidents according to workplace procedures and regulatory requirements.

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:

- control options when selecting chemicals for pests, diseases and weeds infestations, including:
 - chemical
 - mechanical
 - cultural
 - biological
 - integrated pest management including resistance management principles
- types of pest, diseases and weed their treatment and resistance
- legal implications and requirements of chemical labels and SDS
- stakeholders and required notifications including, neighbours, staff and statutory notifications
- impact of weather factors on the safe and effective application of chemicals
- characteristics of chemicals, their mode of action and relevance to chemical selection and use, including:
 - translocated/systemic
 - contact
 - ingested poison
 - protectant
 - eradicant
 - knock-down
 - residual
 - selective/non selective
- factors that contribute to off target damage, including:
 - physical movement of chemicals (e.g. animals moving baits or soil movement)
 - chemical formulation
 - wind speed and direction
 - temperature and relative humidity
 - temperature inversions
 - controlling off target damage
 - rainfall
 - buffer zones and barriers
- hazards of chemical application, including:
 - human and animal health
 - environmental contamination

- residues in environment, plants and animals
- withholding/re-entry periods
- safety requirements when applying chemicals, including:
 - procedures
 - PPE
 - signage
- safe handling, transporting and storage of chemicals
- preparing chemicals including preparation, compatibility, 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 powered and hand held application equipment, including:
 - pressure and volume of chemical
 - travel speed
 - nozzle identification, selection, operation
- legislation, regulations and licensing requirements in relation to chemical use.

Assessment Conditions

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:
 - chemicals
 - PPE
 - application equipment
 - chemical measuring and mixing equipment
- specifications:
 - specific workplace documents, including work instructions and procedures for chemical application
 - chemical labels and SDS
 - regulations about use of chemicals
 - manufacturers' operation and maintenance instructions for equipment
 - access to weather forecasts or means to measure local weather.

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.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>