



Australian Government

Assessment Requirements for AHCCHM308 Use application equipment to apply fumigant in confined spaces

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 apply a fumigant on materials housed in an enclosure, ensuring they have:

- determined need, appropriateness and method for fumigating a storage facility
- determined hazards and risks and established safety and security resources and control measures required
- prepared facility for safe fumigation
- determined fumigant requirements and prepared the fumigant and equipment for treatment according to chemical label instructions and safety data sheets (SDS)
- ensured personal safety by using appropriate personal protective equipment (PPE)
- applied fumigant and monitored the safety and integrity of the fumigation process, responding appropriately to emergencies
- rendered the storage facility safe through ventilation, conducted tests to establish safe air quality notifying personnel of residual risks
- removed fumigation materials, waste and temporary resources from storage facility and disposed of waste according to workplace and environmental procedures
- complied with workplace and environmental procedures and chemical label instructions and SDS
- checked, decontaminated, cleaned and stored equipment used in the fumigation process according to workplace procedures
- maintained records of fumigation activities and incidents and reported 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:

- pests relevant to materials to be treated and factors and considerations in relation to the use of fumigation
- pest management strategies and relation to the use and selection of fumigation methods, including:
 - chemical
 - mechanical
 - biological
 - cultural
 - integrated pest management including resistance management principles
- types of fumigant used for treating storage facilities, their mode of action, methods of application, transport, storage and handling
- fumigant labels and SDS and how to interpret and apply label requirements for specific crops and facilities
- equipment used in fumigation, their setup, calibration, operation, shutdown, care and maintenance
- storage facilities and their suitability for fumigation, techniques used to seal a facility, and methods and calculations required to determine fumigant rates of application
- monitoring procedures during a fumigation process and methods of assessing leakage
- safety requirements including signage, equipment, PPE for use when handling fumigants and conducting fumigation activities
- legislation, regulations, licensing and codes of practice relevant to fumigant use
- risks associated with working near confined spaces including signage, gas detection and relevant entry and exit procedures
- chemical hazards and risk factors including human and animal health, leakage, spillage, environment damage and control measures required to mitigate risk
- methods for ventilating storage facilities and the equipment required
- how to assess for residual gas and safe re-entry periods including the consequence of fumigant residues and maximum residue limits
- requirements for disposal of excess fumigants, clearing spillages and equipment clean up
- procedures and processes for rendering a storage facility safe and operational after fumigation
- records required when conducting fumigation activities and related safety reporting procedures.

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
 - access to storage facility and materials for fumigation
- resources, equipment and materials:
 - fumigants

- PPE
- fumigation and ventilation equipment
- fumigation measuring and mixing equipment
- gas testing equipment
- materials required to seal facilities for fumigation
- specifications:
 - workplace documents, including work instructions and procedures for fumigation
 - fumigant labels and SDS
 - legislation, regulations, codes of practice relevant to handling, storage, transport and use of fumigants
 - manufacturers' operation and maintenance instructions for fumigation equipment
 - relevant standards for air quality for test results.

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>