



**Australian Government**

# **AHCCHM302 Fumigate soil**

**Release: 1**

## AHCCHM302 Fumigate soil

### Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

### Application

This unit of competency describes the skills and knowledge required to fumigate soil or media or both to control microbiological and other pests.

All work must be carried out to comply with workplace procedures, work health and safety and pesticide legislation and codes, and sustainability practices. All work is carried out to comply with Safety Data Sheets and chemical label directions.

This unit applies to individuals who work under broad direction and take responsibility for their own work and use discretion and judgement in the selection and use of available resources.

Licensing, legislative, regulatory or certification requirements may apply to this unit. Candidates should confirm the regulatory requirements that apply in their relevant State or Territory before undertaking this unit.

### Pre-requisite Unit

AHCCHM303 Prepare and apply chemicals

AHCCHM304 Transport and store chemicals

### Unit Sector

Chemicals (CHM)

### Elements and Performance Criteria

Element	Performance criteria
Elements describe the	Performance criteria describe the performance needed to demonstrate

<b>Element</b>	<b>Performance criteria</b>
essential outcomes.	achievement of the element.
1. Plan fumigation	<p>1.1 Determine the need for fumigation as an option within an Integrated Pest Management (IPM) and Integrated Resource Management (IRM) strategy.</p> <p>1.2 Determine type of fumigant and application rate</p> <p>1.3 Select method of fumigant application to suit type of pest and soil or media type</p> <p>1.4 Assess appropriateness of site and soil conditions for selected fumigation method</p>
2. Prepare site for fumigation	<p>2.1 Identify hazards, assess risks and implement control measures in relation to the use of fumigants</p> <p>2.2 Establish site security measures to control access during fumigation and prescribed re-entry periods</p> <p>2.3 Set up emergency system</p> <p>2.4 Prepare soil, measure soil temperature and check soil moisture to ensure that the required concentration of fumigant is retained in the soil for the required period of time</p>
3. Prepare application equipment and fumigants	<p>3.1 Select and use appropriate personal protective equipment as per label instructions</p> <p>3.2 Select application equipment appropriate for the fumigation in accordance with label directions and industry practice</p> <p>3.3 Check operational effectiveness of fumigation machinery and equipment</p> <p>3.4 Calibrate fumigation equipment to deliver the correct application rate</p> <p>3.5 Transport and store fumigants</p> <p>3.6 Prepare fumigant</p>
4. Conduct and monitor fumigation	<p>4.1 Apply fumigant using appropriate equipment and fumigation methods</p> <p>4.2 Respond to emergency situations using emergency response procedures</p> <p>4.3 Apply appropriate soil sealing methods to contain fumigant</p> <p>4.4 Monitor fumigation site during exposure time to prevent unauthorised access</p> <p>4.5 Aerate soils fully and accurately test for evidence of residual gas by conducting germination test or sowing indicator crop</p> <p>4.6 Establish re-entry times and control risks to human and animal health</p> <p>4.7 Notify appropriate personnel of any further risk control measures required</p>

Element	Performance criteria
	4.8 Ventilate fumigation enclosure if fumigation performed in glasshouse or similar to remove fumigant in safe and controlled manner
5. Restore site	5.1 Collect and remove all equipment, fumigants and waste 5.2 Remove signage when site is available for re-use 5.3 Restore site
6. Clean, safety-check and store equipment and fumigants	6.1 Clean, decontaminate, check and store equipment and personal protective equipment in appropriate location 6.2 Dispose of all waste as per the label
7. Record fumigation details	7.1 Record details of fumigation 7.2 Record and report safety incidents or poisoning to the appropriate person or authority

## Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

## Unit Mapping Information

This unit is not equivalent to AHCCHM302A Fumigate soil using chemicals.

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>