

Title	Control pests by fumigation in the urban pest management industry		
Level	4	Credits	15

Purpose	<p>This is a specialist unit standard for people training for the urban pest management industry.</p> <p>People credited with this unit standard are able to: complete preparations prior to treatment for the control of pests by fumigation; treat pests by fumigation; and complete fumigation treatment.</p>
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Classification	Pest Management > Urban Pest Management
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Available grade	Achieved
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Prerequisites	<p>Unit 6401, <i>Provide first aid</i>; Unit 6402, <i>Provide resuscitation level 2</i>; Unit 3254, <i>Follow safe practices in the urban pest management industry</i>; Unit 3255, <i>Demonstrate knowledge required by a trainee in the urban pest management industry</i>; and Unit 3256, <i>Locate information and complete documentation and records for urban pest management operations</i>; or demonstrate equivalent knowledge and skills.</p>
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Guidance Information

- Competence demonstrated during assessment against this unit standard must comply with the requirements of:
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Biosecurity Act 1993;
 - Consumer Guarantees Act 1993;
 - Food Act 1981;
 - Hazardous Substances and New Organisms Act 1996;
 - Health Act 1956;
 - Health and Safety in Employment Act 1992;
 - Resource Management Act 1991;
 - Manual of Fumigation for Insect Control 1984; Food and Agriculture Organisation of the United Nations;
 - AS/NZS 1715:2009 – *Selection, use and maintenance of respiratory protective equipment*;
 - AS/NZS 4360, HB 436 – *Risk Management Set*;
 - Code of Practice for Control and Safe Use of Fumigants, Pest Management Association of New Zealand 2008 (HSNOCOP 31-1);
 - Guide to Respiratory Protection, Occupational Safety and Health 1999.

- 2 *Industry best practice* refers to enterprise and/or establishment requirements and practices which are in accordance with applicable legislation and regulations. *Organisational requirements* refers to instructions to staff on policy procedures and methods relating to urban pest management (including health and safety) and the application of any written procedures which are documented in memo or manual format and are available in the workplace.
- 3 It should be noted that fumigation is a licensed operation. Trainees credited with this unit standard will need to complete all the requirements of the Environmental Risk Management Authority for an Approved Handler Certificate and a Controlled Substances Licence before undertaking fumigation operations.

Outcomes and performance criteria

Outcome 1

Complete preparations prior to treatment for the control of pests by fumigation.

Performance criteria

- 1.1 Site report determines location and extent of infestation and is completed in accordance with organisational requirements and industry best practice.
- 1.2 Requirements for job are verified from site report.
- Range requirements include – regulations, gas type, materials and equipment to be used, safety and testing equipment required, dosage and concentrations.
- 1.3 Client is provided with written details of all aspects of proposed treatment in accordance with industry best practice and organisational requirements.
- 1.4 Client's written acceptance of all facets of proposed treatment is obtained prior to treatment in accordance with industry best practice and organisation requirements.
- 1.5 Notification is completed prior to operations as specified in the industry fumigation code of practice.
- Range Notifications requirements (as per the Code of Practice for Control and Safe Use of Fumigants: Table 2).
- 1.6 Equipment, Personal Protection Equipment (PPE) and materials required for the job are checked to ensure they are in safe working condition and operational in accordance with industry best practice and organisational requirements.

1.7 Vehicle is prepared in readiness for job and to comply with storage requirements in accordance with industry best practice and organisational requirements.

Range vehicle readiness includes – clean and tidy, current warrant of fitness, current registration, vehicle record book up-to-date, safety data sheets.

1.8 First aid, resuscitation equipment and signage are checked to ensure they comply with requirements in accordance with industry best practice and organisational requirements.

1.9 Site is prepared for fumigation in accordance with industry best practice and organisational requirements.

Outcome 2

Treat pests by fumigation.

Range space fumigation, tent fumigation, silo fumigation, ship or aircraft fumigation, cell fumigation, container fumigation.
Evidence of any one required.

Performance criteria

2.1 Area to be fumigated is sealed in accordance with industry best practice and organisational requirements for category of fumigation.

2.2 Testing is carried out in accordance with industry best practice and organisational requirements.

2.3 Fumigants are applied in accordance with industry best practice and organisational requirements.

2.4 Leakages are detected and dealt with in accordance with industry best practice and organisational requirements.

2.5 Safety zone is maintained in accordance with industry best practice and organisational requirements.

2.6 Safety of personnel is maintained throughout operations.

2.7 Emergency procedures are enacted in accordance with industry best practice and organisational requirements, when required.

Outcome 3

Complete fumigation treatment.

Performance criteria

- 3.1 Tests of fumigated area are carried out as specified in accordance with industry best practice and organisational requirements.
- Range presence of fumigant.
- 3.2 If any discs or residues remain after the fumigation process, these are removed and disposed of in accordance with industry best practice and organisational requirements.
- 3.3 All equipment and PPE is decontaminated, cleaned and maintained in accordance with industry best practice and manufacturer's recommendations.
- 3.4 Fumigation register is completed in accordance with industry best practice and organisational requirements.
- 3.5 Notice of completion is issued in accordance with industry best practice and organisational requirements.
- Range Notifications requirements (as per the Code of Practice for Control and Safe Use of Fumigants: Table 2).
- 3.6 Documentation relating to job is processed in accordance with industry best practice and organisational requirements.
- Range includes – company fumigation register, any required job or site reporting.
- 3.7 Client is provided with written notification of completion of fumigation process.
- 3.8 Fumigation equipment and chemicals are stored in accordance with industry best practice and organisational requirements.
- 3.9 Post-treatment personal hygiene and safety procedures are followed in accordance with industry best practice and organisational requirements.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 November 1996	31 December 2021
Revision	2	7 June 2000	31 December 2021
Revision	3	3 April 2001	31 December 2021
Review	4	26 July 2004	31 December 2021
Revision	5	14 April 2005	31 December 2021
Review	6	18 March 2010	31 December 2021
Review	7	24 January 2019	31 December 2021

Consent and Moderation Requirements (CMR) reference	0004
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.