

Title	Demonstrate knowledge and apply treatments to control ants in the urban pest management industry		
Level	4	Credits	20

Purpose	<p>This is a specialist unit standard for Pest Control Technicians training for the urban pest management industry.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of ants endemic to New Zealand, exotic ants, an understanding of potential incursions and impacts, and MAF Biosecurity reporting requirements; complete preparations prior to treatment for the control of pest ants; apply treatments to control pest ants; and complete job-related tasks following treatment for the control of pest ants.</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 3257, <i>Follow treatment procedures to control insects and spiders in the urban pest management industry</i>; and Unit 3260, <i>Demonstrate knowledge required by a service technician in the urban pest management industry</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;
 - Dairy Industry Restructuring Act 2001;
 - Food Act 1981;
 - Health and Safety in Employment Act 1992;
 - Hazardous Substances and New Organisms Act 1996;
 - Resource Management Act 1991;
 - Manaaki Whenua – Landcare Research publications and fact sheets, available at <http://www.landcareresearch.co.nz/>;
 - NZS 8409:2004 - *Management of Agrichemicals*;
- Industry best practice* refers to enterprise and/or establishment requirements and practices which are in accordance with applicable legislation, regulations and safety data sheets.

Organisational requirements refers to instructions to staff on policy procedures and methods relating to pest management operations (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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of ants endemic to New Zealand.

Performance criteria

- 1.1 Ants endemic to NZ are identified in terms of species and habitat.
- Range NZ native and endemic species;
Evidence of any eight.
- 1.2 Characteristics of ants endemic to NZ are described.
- Range to include – life cycle, breeding cycle and nesting, feeding habits and pest infestation.

Outcome 2

Demonstrate knowledge of exotic ants, an understanding of potential incursions and impacts and MAF Biosecurity reporting requirements.

- 2.1 Potential invasive exotic ants are identified in terms of species, habitat, and tramp characteristics.
- Range Red Imported Fire Ant, Tropical Fire Ant, Little Fire Ant, Yellow Crazy Ant, Crazy Ant.
- 2.2 Characteristics of invasive exotic ants are described.
- Range to include – life cycle, breeding cycle and nesting, feeding habits, pest infestation and potential impacts to NZ.
- 2.3 Describe the reporting requirements of MAF Biosecurity as it relates to exotic ant incursions.

Outcome 3

Complete preparations prior to treatment for the control of pest ants.

Performance criteria

- 3.1 Site report determines location and extent of infestation and is completed in accordance with organisational requirements and industry best practice.

- 3.2 A sample of ants is collected and identified.
- Range Pest Control Technician must positively identify endemic ants before treatment proceeds, in accordance with MAF Biosecurity controls for the treatment of exotic ants.
- 3.3 Complete MAF Biosecurity requirements for documentation and reporting, and submit ants for identification.
- Range suspected invasive ants, data collection, sample collection, sample submission.
- 3.4 Requirements for job are verified from site report.
- Range includes – regulations, industry codes of practice, customers' and industry procedures, requirements of insecticide labels, ensuring that treatment areas are secure and properly signposted.
- 3.5 Client is provided with written details of all aspects of proposed treatment in accordance with industry best practice and organisational requirements.
- 3.6 Client's written acceptance of all facets of proposed treatment is obtained prior to treatment in accordance with industry best practice and organisational requirements.
- 3.7 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.
- 3.8 Treatment selected is that which is most effective for target ant species and least harmful to personnel, non-target insect species and the environment.
- Range confirm endemic pest ant species identification.
- 3.9 Ant baits are prepared, broadcast or applied in accordance with label instructions and manufacturer's recommendations.
- 3.10 Documentation is completed in accordance with industry best practice and organisational requirements.
- Range documentation – site report (checked and confirmed), service agreement, initial contact inquiry.
- 3.11 Vehicle is prepared in readiness for job in accordance with industry best practice and organisational requirements.
- Range vehicle readiness includes – clean and tidy, check for current warrant of fitness, check for current registration, vehicle record book up-to-date.

Outcome 4

Apply treatments to control pest ants.

Range Ochetellus glaber, Tetramorium grassi, White footed ant, Pheidole rugosula, Pheidole megacephala, Pheidole vigilans, Monomorium antarticum, Paratrechina vaga, Darwin's ant, Iridomyrmex anceps, Argentine Ant.
Evidence of any three required.

Performance criteria

4.1 Procedures for client liaison are followed during the treatment in accordance with organisational requirements and industry best practice.

4.2 Areas of infestation are confirmed from site report.

4.3 Treatments are applied in accordance with manufacturer's recommendations relating to type of treatment.

Range chemical or non-chemical applications, confirm endemic pest ant species identification.

4.4 All work practices are carried out in compliance with organisational requirements and industry best practice.

Outcome 5

Complete job-related tasks following treatment for the control of pest ants.

Performance criteria

5.1 Client is provided with written advice relating to post-treatment requirements as specified for treatment method, ant baits used and preventative measures.

Range future monitoring of situation and a pre-arranged return visit by Pest Control Technician to check situation, house-keeping practices, spillages, garbage disposal areas.

5.2 All items of personal equipment and machinery are cleaned and maintained in accordance with manufacturer's recommendations.

5.3 Ant baits are secured in accordance with industry best practice and organisational requirements.

5.4 Documentation relating to job is processed in accordance with organisational requirements and industry best practice.

Range any required job or site reporting.

5.5 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	19 May 2006	31 December 2021
Review	2	18 March 2010	31 December 2021
Review	3	24 January 2019	31 December 2021

Consent and Moderation Requirements (CMR) reference

0004

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.