

Title	Demonstrate knowledge of significant exotic bees, bee diseases, disorders, pests, and bee management practices		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to demonstrate knowledge of significant exotic bees, bee diseases, disorders, pests, and bee management practices.
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Classification	Agriculture > Apiculture
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Available grade	Achieved
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Guidance Information

- 1 Legislation and standards relevant to this unit standard includes but is not limited to:
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Animal Products Act 1999;
 - Biosecurity Act 1993;
 - Biosecurity (National American Foulbrood Pest Management Plan) Order 1998;
 - Food Act 2014;
 - Food Standards Code and Food Standard: Tutin in Honey 2014;
 - Health and Safety at Work Act 2015;
 and any subsequent amendments.
- 2 Definition
Workplace procedures refer to policies and procedures set down the employer or organisation on management practices for significant exotic bees, bee diseases, disorders, and pests.
- 3 Workplace procedures must be consistent with the following references –
 Goodwin, Mark, *Elimination of American Foulbrood Disease without the use of Drugs: A Practical Manual for Beekeepers* (Otaki, New Zealand: National Beekeepers Association of New Zealand Inc., revised edition 2018) (also referred to as The Beekeeper’s Manual); and
 Goodwin, Mark and Taylor, Michelle, *Control of Varroa – A Guide for New Zealand Beekeepers* (Wellington, New Zealand: New Zealand Ministry of Agriculture and Forestry, revised edition 2007).
 All references are available from Apiculture NZ, PO Box 25207, Wellington 6146, New Zealand <http://apinz.org.nz/contact/> or email info@apinz.org.nz ph + 64 4 471 6254.
- 4 For the purposes of assessment:
 - evidence must be presented in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of significant exotic bees, bee diseases, disorders, pests, and bee management practices.

Performance criteria

- 1.1 Identify exotic diseases and pests by physical appearance, damage caused and presence in the hive.
- 1.2 Describe the implications for disease, disorder and pest control and notification requirements.
- Range exotic bees – Africanised honey bee, Asian honey bees, Cape honey bee;
bee diseases – European foulbrood (EFB), stonebrood, Israeli acute paralysis virus (IAPV),
bee disorders – colony collapse disorder;
bee pests – tracheal mite, Asian mite, small hive beetle, bee louse, hornets;
evidence of at least five is required with at least one example from each of exotic bees, bee diseases, bee disorders, and bee pests.
- 1.3 Describe current management practices for one exotic bee species, disease, disorder, or pest.
- 1.4 Describe the potential impact of an exotic incursion on the New Zealand beekeeping industry and the changes to current management practice that would result from an incursion.
- 1.5 Describe the notification and sampling procedures for exotic disease detection.

Replacement information	This unit standard replaced unit standard 20250.
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Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	14 December 2017	31 December 2022
Review	2	24 September 2020	N/A

Consent and Moderation Requirements (CMR) reference	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.