

Title	Describe the nutritional requirements of bees and feeding regimes for bees in different seasonal conditions		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to describe: the nutritional requirements of bees; and feeding regimes for bees in different seasonal conditions.
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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 2016;
 - Health and Safety at Work Act 2015;
 - Ministry of Primary Industries Manuka Honey Testing Procedures <https://www.mpi.govt.nz/growing-and-harvesting/honey-and-bees/manuka-honey/>;
 and any subsequent amendments.
- 2 For information on Manuka honey, refer to <https://www.mpi.govt.nz/dmsdocument/17374-manuka-honey-science-definition-infographic>.
- 3 Definition
Workplace procedures refer to the policies and procedures set by the employer or organisation on bee feeding.
- 4 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.

- 5 For the purposes of assessment:
- evidence must be presented in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Describe the nutritional requirements of bees.

Performance criteria

- 1.1 Describe the nutritional requirements of bees in relation to food groups.

Range evidence of five food groups is required.

Outcome 2

Describe feeding regimes for bees in different seasonal conditions.

Performance criteria

- 2.1 Describe feed types for beehives and explain the situations in which they might be used.

Range evidence of two feed types is required.

- 2.2 Describe feeding regimes and the seasonal influences on feeding regimes.

Range evidence of two feeding regimes is required;
ratios of feed, effect on final product, effect on bee health.

- 2.3 Describe the use of pollen substitutes and pollen supplements as beehive feed.

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.