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| Title | Assess breeder queen bees and undertake breeder queen bee selection | | |
| Level | 4 | Credits | 5 |

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| Purpose | <p>This unit standard is intended for people working in a queen bee rearing context.</p> <p>People who are credited with this unit standard are able to: identify selection criteria for breeder queen bees and develop a selection criteria template; and assess beehive characteristics to identify suitable breeder queen bees for selection.</p> |
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| Classification | Agriculture > Apiculture |
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| Available grade | Achieved |
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Guidance Information

- 1 All evidence presented in this unit standard must be in accordance with:
 - Workplace procedures;
 - Agricultural Compounds and Veterinary Medicines Act 1997;
 - Animal Products Act 1999;
 - Biosecurity Act 1993;
 - Biosecurity (National American Foulbrood Pest Management Strategy) Order 1998;
 - Food Act 2014;
 - Health and Safety at Work Act 2015;
 - Food Standards Code and Food Standard: Tutin in Honey 2016; and any subsequent amendments.
- 2 **Definition**
Workplace procedures refer to the policies and procedures on safety and operation set down by the employer or organisation.
- 3 **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 2006) (also referred to as The Beekeeper's Manual).
 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 or email info@apinz.org.nz ph + 64 4 471 6254.

Outcomes and performance criteria

Outcome 1

Identify selection criteria for breeder queen bees and develop a selection criteria template.

Performance criteria

1.1 Identify selection criteria for breeder queen bees and for each hive attribute score on a scale of 1-5.

Range may include but is not limited to – hive number, honey production, drone colour, worker colour, brood viability, temperament, disease resistance, uncapping and removal behaviour, swarming tendency, hive population, honey and pollen stores, queen appearance and behaviour; evidence of at least eight is required.

1.2 Develop a selection criteria template for recording information.

Outcome 2

Assess beehive characteristics to identify suitable breeder queen bees for selection.

Performance criteria

2.1 Assess beehives from an apiary for breeder queens with desirable characteristics.

2.2 Determine total scores for each beehive from breeder queen selection criteria.

2.3 Rank beehives in the apiary for queen bee breeding potential.

2.4 Make recommendations on beehives as suitable breeder queen bees.

2.5 Monitor and maintain records of a selection of at least three of the top ranked bee hives for at least two months.

Range must include – individual queen records.

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 | 24 January 2019 | 31 December 2022 |
| Review | 2 | 24 September 2020 | 31 December 2022 |

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| 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>.

This unit standard is expiring