



Australian Government

AHCBEK302 Manipulate honey bee brood

Release: 2

AHCBEK302 Manipulate honey bee brood

Modification History

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0.
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0.

Application

This unit of competency describes the skills and knowledge required to manipulate a honey bee brood to improve efficiencies in apiaries.

The unit applies to beekeepers who work under broad direction and take responsibility for their own work. They use discretion and judgement in the selection, allocation and use of available resources and to solve problems.

State and territory legislation, regulations and local government by-laws apply in some jurisdictions to beehive ownership and compliance with biosecurity codes of practice.

Pre-requisite Unit

Nil

Unit Sector

Beekeeping (BEK)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare to manipulate brood	1.1 Establish purpose for manipulating brood and plan appropriate actions and sequence 1.2 Select tools and equipment required to manipulate brood and ensure serviceability 1.3 Identify health and safety in the workplace hazards and risks

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	and apply appropriate controls associated with manipulating honey bee brood 1.4 Select, ensure serviceability, fit and use personal protective equipment 1.5 Observe site quarantine or biosecurity procedures according to workplace procedures and biosecurity code of practice 1.6 Identify risks to bees, brood and queen and take actions to minimise risks
2. Manipulate brood	2.1 Open hive and remove frames according to planned sequence and set aside in suitable safe position 2.2 Replace frames in hive in sequence and position according to planned manipulation 2.3 Monitor hive following manipulation and take appropriate action to minimise disturbance to brood according to workplace procedures 2.4 Clean work area and dispose of waste materials according to workplace waste management and biosecurity procedures
3. Update and maintain apiary records	3.1 Update apiary records for hive manipulations according to workplace procedures 3.2 Maintain mandatory records for hive manipulations according to legislative and biosecurity reporting requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Writing	Complete workplace documentation using appropriate terminology and in required format
Navigate the world of work	Take responsibility for following explicit and implicit workplace procedures, regulations and biosecurity codes of practice

Skill	Description
Get the work done	Take responsibility for planning, sequencing and prioritising tasks required for bee brood manipulation

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCBEK302 Manipulate honey bee brood Release 2	AHCBEK302 Manipulate honey bee brood Release 1	Minor changes to Performance Criteria for clarity Updated Performance Evidence and Knowledge Evidence	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCBEK302 Manipulate honey bee brood

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that on at least one occasion the individual has demonstrated that they have manipulated a honey bee brood including:

- established the purpose for manipulating brood and determined appropriate actions and sequencing of a honey bee brood to achieve a desired outcome
- identified hazards, assessed the risks and implemented safe work procedures for handling bees
- selected, checked serviceability, fitted and used appropriate personal protective equipment
- selected and used tools, materials and equipment for manipulating bee brood
- complied with apiary biosecurity and quarantine procedures during the activity
- opened hives, removed frames and set aside with minimal disturbance to brood and queen
- repositioned frames safely according to plan with minimal damage or unintended disturbance to brood
- monitored the hive after manipulation
- cleaned up work area and disposed of waste appropriately
- updated and maintained workplace and statutory records.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- principles and practices of honeybee brood manipulation
- biosecurity and quarantine requirements when manipulating bees
- bee behaviour and handling techniques
- different types of manipulation that may be used to achieve desired results, including:
 - hive expansion

- splitting and nucleus development (nucs)
- pests and disease inspection and control
- increasing honey production
- swarm control
- re-queening and queen rearing
- seasonal preparations
- frame rotation
- tools and equipment and their safe use for opening hives and manipulating brood
- types of hive waste and processes for disposal
- workplace and statutory records and reporting.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - an active apiary
- resources, equipment and materials:
 - hives with live bees with brood comb
 - specific hive tools
 - personal protective equipment
- specifications:
 - workplace procedures and instructions for manipulating brood
 - access to beekeeping legislation and biosecurity code of practice.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

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