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. |

| AHCBEK302 | Manipulate honey bee brood |
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| 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 experienced beekeepers who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources.  No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication. |
| Prerequisite unit | Nil |
| Unit sector | Beekeeping (BEK) |

| Elements | Performance criteria |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1.Prepare to manipulate brood combs | 1.1 Clarify reason 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 work health and safety hazards and risks associated with manipulating brood and take actions to minimise risk  1.4 Select and use suitable personal protective equipment (PPE) and ensure serviceability  1.5 Observe site quarantine or biosecurity protocols according to workplace procedures and industry code of practice  1.6 Identify risks to bees, brood and queen bee, 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 and colony following manipulation and take appropriate action to minimise disturbance to brood according to workplace procedures  2.4 Dispose of waste materials according to workplace and environmental procedures |

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| 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. | |
| Skills | Description |
| Navigate the world of work | * Takes responsibility for following explicit and implicit workplace procedures and industry codes of practice |
| Get the work done | * Takes responsibility for planning, sequencing and prioritising tasks required in planning a honeybee brood manipulation |

| Unit mapping information | | | |
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| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCBEK302 Manipulate honey bee brood | AHCBEK302A Manipulate honey bee brood | Updated to meet Standards for Training Packages  Minor changes to Performance Criteria for clarity | Equivalent unit |

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

| Assessment requirements | |
| --- | --- |
| AHCBEK302 | Manipulate honey bee brood |
| 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:   * determined appropriate manipulation 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 * used appropriate personal protective equipment (PPE) * used 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 . | |

| Knowledge evidence |
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| 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 * bee handling techniques * different types of manipulation that may be used to achieve desired result * purposes for which brood may be manipulate * tools and equipment used for manipulating hives and requisite constraints including fire regulations when using smoker * types of hive waste and processes for disposal. |

| Assessment conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in an active apiary or an environment that accurately represents workplace conditions * resources, equipment and materials: * hives with live bees and brood * use of specific hive tools * use of specific items of personal protective equipment * specifications: * use of specific workplace procedures and processes * use of workplace instructions/job specifications * access to specific beekeeping codes of practice * timeframes:   according to the job requirements to minimise stress on the colony.  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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