Modification history

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

| AHCBEK3XXX | Transport bee hives by road to new apiary site |
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| Application | This unit of competency describes the skills and knowledge required to prepare, load and transport live bee colonies (hives) by road transport between apiary sites.  The unit applies to beekeepers responsible for operating apiaries under limited supervision, applying a broad range of skills and knowledge with autonomy and accountability to solve problems.  All work must be carried out to comply with workplace procedures, in accordance with State/Territory work health and safety, food safety, road transport and biosecurity regulations, legislation and standards that apply to the workplace.  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Beekeeping (BEK) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Plan road transport of hives to new apiary site | 1.1 Identify destination and determine best route according to vehicle capability, job specifications, welfare of bees and workplace health and safety requirements  1.2 Calculate travel time and estimate time of arrival  1.3 Identify environmental hazards and assess environmental risks that impact on colony health during transport  1.4 Prepare a hive transport plan and colony management strategy to address identified environmental risks to bee health and safety of people that may contact bees on route  1.5 Complete documentation for permits according to workplace procedures and regulations |
| 2. Prepare bee colonies for transport | 2.1 Assess each hive for heath and suitability for transport according to biosecurity procedures  2.2 Check hive structural stability in preparation for transport  2.3 Secure hive components according to workplace procedures  2.4 Secure the bees according to transport plan and colony management strategy  2.5 Clean hives of soil and weed contaminants according to biosecurity procedures |
| 3. Prepare vehicle for transport | 3.1 Conduct vehicle operational checks according to workplace procedures  3.2 Prepare vehicle for transport conditions according to terrain, route and workplace procedures  3.3 Select and stow equipment and resources required for hive transport activities according to workplace procedures  3.4 Conduct biosecurity activities on vehicle, tools and equipment according to workplace procedures |
| 4. Load and secure bee colonies | 4.1 Load the hives onto transport vehicle according to work health and safety requirements and hive handling procedures  4.2 Orient the hive on vehicle according to transport plan and colony management strategy  4.3 Secure the load according to workplace procedures and transport regulations |
| 5. Transport and monitor bee colonies | 5.1 Transport bee hives to new apiary site according to workplace procedures and traffic regulations  5.2 Monitor bee activity during scheduled transport breaks and take remedial action according to management strategy  5.3 Check load stability and rectify according to road conditions and workplace procedures |
| 6. Unload and reinstate hives | 6.1 Release the load safely according to hive transport procedures  6.2 Remove hives from transport vehicle according to work health and safety requirements, hive handling procedures and hive transport plan  6.3 Place hives according to apiary site plan  6.4 Reinstate hives according to colony management strategy |
| 7. Record and report on transport activity | 7.1 Assess and review the performance of the transport plan and colony management strategy  7.2 Report on performance elements according to workplace procedures  7.3 Update records for transport activity according to workplace procedures |

| 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. | |
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| Skill | Description |
| Reading | * Reads and interprets biosecurity protocols and codes of practice |
| Writing | * Completes documentation required to obtain permits for relocating bee hives via road transport |
| Numeracy | * Interprets numerical information including distance, time, travel speed, weight, temperature, and humidity to create transport plan and monitor bee transport activities |
| Navigate the world of work | * Plans and implements routine tasks and workload deciding the sequencing and timing of bee hive loading, transporting and unloading activities to meet client needs |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCBEK3XXX Transport bee hives by road to new apiary site | Not applicable | New unit | No 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 |

| TITLE | Assessment requirements for AHCBEK3XX Transport bee hives to apiary site |
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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 transported by road live bee colonies between different apiary sites, including:   * prepared a hive transport plan, determined hazards to bees and people and prepared a colony management strategy for transporting bees to a new apiary site * assessed suitability and condition of hives for road transport and secured hives and components ready for transport * selected equipment and resources required for transit of bee hives and prepared vehicle according to workplace procedures and biosecurity requirements * loaded and secured hives according to workplace procedures and transport regulations * transported bee hives safely according to traffic regulations and checked load security, monitored bee health during transport * removed bee hives safely according to workplace procedures and positioned and reinstated hives according to apiary site plan * updated records, assessed, reviewed and reported on the transport plan. | |

| 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:   * basic map reading and navigation skills to determine route parameters and transport plan including: * road conditions * route efficiencies * journey duration and estimated time of arrival * access to transport vehicle services e.g. fuel, water, air * critical factors that affect colony health during transit including: * weather and other environmental factors * travel time * road conditions * vibration * distance from previous apiary * colony management strategies for transporting hives including: * biosecurity * open hives * closed hives * covers * transporting bee colonies and effect on heath and biosecurity including: * ventilation * water * loose frames * recognising bee disorders and distress during transport and remedial actions required * techniques and equipment for securing hives for transport: * moving and handling hives for transport vehicle and safety * hive orientation on transport vehicle and impact on colony management * tie down techniques and load restraint procedures and transport regulations * vehicle load limits * unloading procedures * managing live bee loads during transit stops including: * fuel stops * mandatory rest breaks * checking load movement and stability * hive manipulations to prepare for transport and restore hives to operational conditions after arrival * strategies for assessing and reviewing transport plan and colony management strategies * permits and regulations for transporting live bees * record keeping and reporting procedures for bee transport |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * an active apiary with hives to be transported or an environment that accurately represents workplace conditions * a new apiary site prepared and ready to receive hives * resources, equipment and materials: * personal protective clothing and safety equipment for handling bees and moving hives * hives with live bees * hive tools and equipment used for transporting hives * vehicle for loading and transporting bee hives * loading and unloading tools and equipment * resources to secure bee hive loads to vehicles * specifications: * work procedures including advice on safe work practices, bee handling and management, environmental requirements * information on equipment and vehicle carrying capacity and operating parameters * specifications, control points and parameters for handling and assessing bee health * documentation and recording requirements and procedures * biosecurity codes of practice and transport regulations.   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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