



Australian Government

AHCBEK311 Transport bee hives by road to new apiary site

Release: 1

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Modification History

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

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 who operate apiaries 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.

The transport, siting and cross border movement of livestock including bee hives and must comply with state and territory transport, quarantine and biosecurity legislation, regulations and codes of practice.

No vehicle licensing is required for individuals undertaking the work described in this unit. Where an individual is the nominated transport vehicle owner or driver, state and territory legislation, regulations, licencing and registration apply.

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. Plan road transport of hives to new apiary	1.1 Identify destination and determine best route according to vehicle capability, job specifications, welfare of bees and health and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
site	safety in the workplace procedures 1.2 Calculate travel time and estimate time of arrival 1.3 Identify environmental hazards and assess environmental risks that impact on hive health during transport 1.4 Identify and assess health and safety risks for other road users 1.5 Prepare a hive transport plan and management strategy to address identified environmental risks to bee health and safety of people that may contact bees on route 1.6 Complete documentation for permits according to workplace procedures and regulations
2. Prepare bee colonies for transport.	2.1 Assess each hive for health 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 hive 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 health and safety in the workplace requirements and hive handling procedures 4.2 Orient the hive on vehicle according to transport plan and hive management strategy 4.3 Secure the load according to workplace procedures and transport regulations
5. Transport and	5.1 Transport bee hives to new apiary site according to workplace

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
monitor bee colonies	procedures and traffic regulations 5.2 Implement safety procedures to protect other road users according to hive transport plan 5.3 Monitor bee activity during scheduled transport breaks and take appropriate action according to management strategy 5.4 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 health and safety in the workplace requirements, hive handling procedures and hive transport plan 6.3 Place hives according to apiary requirements and workplace procedures 6.4 Reinstate hives according to hive management strategy
7. Record and report on transport activity	7.1 Assess and review the performance of the transport plan and hive 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.

Skill	Description
Reading	Interpret livestock transport regulations to identify specific compliance requirements applicable to bee hive transport
Writing	Complete workplace documentation using appropriate terminology and in required format
Numeracy	Interpret numerical information including distance, time, travel speed, weight, temperature, and humidity to create transport plan and monitor

Skill	Description
	bee transport activities
Navigate the world of work	• Takes personal responsibility for following explicit and implicit policies, procedures, legislative requirements and industry codes of practice • Identifies and acts on issues that contravene relevant policies, procedures and legal requirements
Get the work done	• Plans and implements routine tasks and workload deciding the sequencing and timing of bee hive loading, transporting and unloading activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCBEK311 Transport bee hives by road to new apiary site	Not applicable	New unit	No 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 AHCBEK311 Transport bee hives by road to new 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 hives by road to an apiary site, including:

- prepared a hive transport plan, determined hazards to bees and people and prepared a hive 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 hives according to public safety and traffic regulations
- monitored load security and bee health during transport
- removed bee hives safely according to workplace procedures and positioned and reinstated hives according to apiary site plan
- completed documentation and permits and complied with biosecurity and regulatory requirements
- updated records, assessed, reviewed and reported on the transport plan.

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:

- 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 hive health during transit, including:
 - weather and other environmental factors
 - travel time
 - road conditions
 - vibration
 - distance from previous apiary
- vehicle preparation for bee safety and vehicle operation, including:
 - tyre pressure for bee health, terrain and road conditions
 - exhaust fumes
 - pre-start checks
- transport methods for hives, including:
 - open hives
 - closed hives
 - covers and netting
 - barrier system
- transporting bee colonies and effect on health 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, including:
 - moving and handling hives for transport vehicle and safety
 - hive orientation on transport vehicle and impact on hive management
 - securing load techniques, load restraint procedures and transport regulations
 - vehicle load limits
 - unloading procedures
- managing live bee loads during stops, including:
 - fuel stops
 - mandatory rest periods
 - checking load movement and stability
- other road users safety when transporting live bees, including:
 - night road workers and work lights
 - police and road transport authority checks
 - weigh bridges
 - accidents and emergencies
 - emergency services
 - quarantine checkpoints
 - ferry crossings
 - urban areas
 - general public approaching the transporting vehicle

- strategies to mitigate safety concerns for other road users, including:
 - signage and placarding
 - accident emergency procedures
 - communication and notification procedures
- hive manipulations to prepare for transport and restore hives to operational conditions after arrival
- assessing and reviewing transport plan and hive management strategies
- permits and regulations for transporting live bees, including:
 - biosecurity requirements
 - health certification
- record keeping and reporting procedures for bee transport
- health and safety procedures and requirements for transporting and handling hives.

Assessment Conditions

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
 - an apiary site prepared and ready to receive hives
- resources, equipment and materials:
 - health and safety equipment for transporting and handling bees
 - 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 for transporting bee hives, including 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
 - access to biosecurity codes of practice, quarantine 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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