Modification history

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| Release | Comments |
| Release 2 | This version released with Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0. |
| Release 1 | This version released with Agriculture, Horticulture and Conservation and Land Management Training Package Version 3.0. |

| AHCNRM301 | Establish an Australian native stingless bee colony |
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| Application | This unit of competency describes the skills and knowledge required to identify, procure, establish and maintain a colony of Australian native stingless bees (ANSB) suitable for establishing in a specific location for a defined purpose.  The unit applies to individuals 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 apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Natural Resource Management (NRM) |

| 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. Recognise common Australian native stingless bees suitable for domestication | 1.1 Recognise common Australian native bees and their nesting habits  1.2 Recognise common ANSB species suitable for domestication for a specified location  1.3 Select a species of ANSB and identify the environmental conditions required  1.4 Prepare a basic management strategy for establishing and maintaining ANSB for a defined purpose |
| 2. Prepare a structure to house an ANSB colony | 2.1 Identify type of structure required to house the ANSB colony and acquire components according to design and workplace procedures  2.2 Identify health and safety hazards and risks and apply appropriate controls according to workplace procedures  2.3 Select, fit and use personal protective equipment  2.4 Select tools and equipment required to assemble the planned structure according to workplace procedures  2.5 Assemble components to house ANSB according to design |
| 3. Establish an ANSB colony | 3.1 Procure a population of native bees and prepare to establish a new colony according to workplace procedures and legislative requirements  3.2 Identify and select a preferred method for establishing colony  3.3 Prepare bee structure to receive the native bee colony  3.4 Perform manipulations required to establish the bee colony according to selected method  3.5 Transfer the colony to a location and position suitable to native bee species, colony management strategy and biosecurity procedures  3.6 Monitor native bee colony for desired development and take remedial action to rectify development problems |
| 4. Monitor and maintain the health of ANSB's | 4.1 Identify and recognise common native bee pests, diseases and disorders  4.2 Inspect native bee colony for pests, diseases and disorders and take remedial action according to workplace biosecurity procedures  4.3 Monitor environmental conditions and maintain optimal condition according to workplace procedures and management strategy |
| 5. Manipulate ANSB colony to achieve strategic outcomes | 5.1 Confirm purpose and outcomes for ANSB colony against management strategy  5.2 Manipulate and manage colony to achieve purpose and outcome of management strategy  5.3 Review outcomes of manipulations to assess achievement of management strategy |

| 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 | * Interpret designs and plans suitable for housing ANSB colonies |
| Writing | * Document a basic management strategy for an ANSB colony using appropriate terminology and required format |
| Numeracy | * Measures and perform calculations for layout and construction requirements of ANSB structures according to proposed design |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCNRM301 Establish an Australian native stingless bee colony  Release 2 | AHCNRM301 Establish an Australian native stingless bee colony  Release 1 | Removed mapping to Core Skills for Work from Foundation Skills mapping table | 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 AHCNRM301 Establish an Australian native stingless bee colony |
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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 the individual has on at least one occasion established an Australian native bee colony, including:   * recognised and selected appropriate Australian native stingless bees (ANSB) for domestication and prepared a strategy for managing the colony for a defined purpose * identified a suitable structure to house an ANSB colony and acquired components * used tools and equipment, including personal protective equipment (PPE), to safely prepare a structure to house an ANSB colony * procured a population of ANSBs and established and located the colony in a suitable environment * monitored the colony conditions, pests, diseases and disorders during establishment according to colony workplace and biosecurity procedures * monitored, manipulated and assessed the colony to achieve strategic outcomes. | |

| 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:   * types of Australian native bees and their basic biology and nesting habits for a given locality, including: * stinging * stingless * social * solitary * ANSB and their attributes suitable for "domestication", including: * colony forming * health and safety risks * suitable environmental conditions * role in pollination * commercial and non-commercial outcomes for keeping ANSBs, including: * pollination and pollination services * honey production * education * conservation * pets * developing, monitoring and assessing basic strategies for keeping ANSBs * equipment and resources required for keeping ANSBs including beekeeping tools, use and maintenance * structures to house Australian native stingless bees, including: * natural habitats * hives and hive designs * health, hygiene and biosecurity considerations * health and safety hazards and risks associated with handling and working with ANSB's, including: * PPE * public safety * lifting and handling * safe use of tools * methods used for procuring and establishing ANSBs, including: * legislative requirements when collecting wild populations * transfer techniques for wild colony * budding * splitting * trapping * purchasing established colony * locating colonies and establishing native bee meliponary, including: * locality/location/region/ * weather and temperature * orientation * access to food and water * proximity of colonies to each other and competition * pests diseases and disorders of Australian native stingless bees and their control including biosecurity * monitoring procedures and signs of a health or declining population * ANSB manipulation techniques, including: * inspections * accessing honey * splitting. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a workplace setting or an environment that accurately represents workplace conditions * resources, equipment and materials: * Australian native stingless bee colony * tools and equipment for assembling and working with Australian native stingless bee colonies * PPE * specifications: * workplace procedures and specifications related to establishing Australian native stingless bee colonies * manufacturer s instructions for equipment and machinery to maintain structures to house bee colonies * access to legislation and codes of practice related to Australian native stingless bee colonies.   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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