Modification history

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| Release | Comments |
| Release 2 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCNRM401 | Plan and implement a biosecurity program |
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| Application | This unit of competency describes the skills and knowledge required to plan and implement a biosecurity program.  The unit applies to individuals who take responsibility for their own work and for the quality of the work of others within known parameters. They provide and communicate solutions to a range of predictable and sometimes unpredictable problems.  No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication, however, where animals are involved in training and assessment, the AHC Training Package has the requirements for animals to be handled humanely to minimise stress and discomfort. |
| 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. Maintain a biosecure area to prevent disease transmission through the use of physical barriers and hygiene practices | 1.1 Maintain a controlled access perimeter to funnel authorised traffic through control points  1.2 Establish and implement procedures for all staff and equipment to cross the controlled access perimeter into the controlled access zone  1.3 Restrict entry of workers and equipment into the controlled access zone by transferring inputs, waste and products through access points on the controlled access perimeter  1.4 Maintain restricted access perimeters and restricted zones  1.5 Prioritise access to restricted zones on the risks and potential impacts of infection being carried into the zone |
| 2. Implement biosecurity procedures to manage visitors | 2.1 Define the risk level of visitors by gathering information before the visit and during sign in  2.2 Establish procedures for higher risk visitors  2.3 Maintain clear signage to direct traffic and discourage unauthorised visitors  2.4 Communicate the requirements for entry to visitors before they arrive on site  2.5 Keep visitor parking separate to prevent staff vehicle or traffic way contamination  2.6 Develop a questionnaire to be completed and signed by visitors to establish their risk levels  2.7 Develop and post criteria for banning visitors including those who fail to make pre-arrangements  2.8 Maintain visitor log books to allow traceability of any subsequent disease issues |
| 3. Apply sanitation practices and personnel movements to reduce the risk of disease | 3.1 Monitor and adjust drainage to ensure water doesn't collect and stand  3.2 Implement and monitor hygiene and clothing procedures for entry to the site  3.3 Establish and maintain well-defined transition zones for entering restricted zones  3.4 Select disinfectants that are appropriate for surfaces and water quality  3.5 Develop and implement standard operating procedures for cleaning and sanitising facilities, tools and equipment  3.6 Ensure staff movements and animal exposures are from most susceptible animals to least susceptible  3.7 Ensure boot dips are used correctly and recharged frequently |
| 4. Implement an integrated strategy for pests to reduce the risk of disease | 4.1 Maintain facilities to eliminate potential points of entry for pests  4.2 Screen all inputs such as feed, fertiliser and animals to reduce the likelihood of pests being introduced  4.3 Monitor pest numbers through the use of counts or other indicators  4.4 Use good sanitation and hygiene to break pest cycles and eliminate pest habitat  4.5 Control or exclude pests from output storage areas  4.6 Reduce pest numbers by use of an integrated approach using a combination of biological, chemical, behavioural and mechanical controls  4.7 Rotate pesticides periodically to overcome resistance in pest populations  4.8 Document and evaluate pest control measures in response to effectiveness over time |
| 5. Manage outputs to reduce the risk of disease | 5.1 Remove and store outputs such as garbage for later removal or disposal  5.2 Locate storage areas for outputs in low-traffic areas and managed to prevent cross-contamination and comply with environmental legislation  5.3 Implement a mortality management strategy using alternatives such as burial, composting, rendering or incineration |
| 6. Review the implementation of biosecurity measures | 6.1 Use record keeping of biosecurity procedures to reduce risk of disease  6.2 Monitor effectiveness and progress of control activities and compare with planned objectives  6.3 Ensure standards and protocols for the monitoring of sheds and facilities are adhered to as part of work duties  6.4 Address issues and concerns with biosecurity and amend procedures where required  6.5 Revise control activities as required to address relevant protocols, maintain cost-effectiveness including appropriate resource allocation and contain wider impacts  6.6 Review staff training and induction records to ensure they are able to implement all biosecurity requirements appropriate to their position |

| 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 |
| [Skill] | * [Style to be applied is SI Bullet List 1 * Use sentence case (i.e. commence with upper case) for each bullet point but do not put a full stop at the end * See Guidelines for the skills to be described, the order in which to list them and hints on writing descriptions |
| [Skill] | * SI Bullet List 1 * SI Bullet List 1 |
| [Style to be applied in left column is SI Text[ | * SI Bullet List 1 * SI Bullet List 1] |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCNRM401 Plan and implement a biosecurity program | [SI Text] | 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 AHCNRM401 Plan and implement a biosecurity program |
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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   * manage and maintain quarantine * implement and monitor quarantine area sanitation * disinfect facilities * plan and implement pest control strategies * establish a biosecure area * manage visitor access and the storage and movement of inputs and outputs for biosecurity * develop sanitation procedures to reduce the risk of disease * apply integrated pest management practices to control pests in a biosecure area * ensure staff are aware of and follow biosecurity procedures * review biosecurity status based on records system | |

| 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:   * diseases and pests that pose a threat and their likely causes of spread * principles of risk management applied to biosecurity * requirements for personal hygiene and quarantine procedures for site entry * principles of disinfecting a site * safe use of chemicals and cleaning agents * integrated pest management and rotation of chemical pest controls * cleaning and disinfecting procedures * work health and safety, environmental and biosecurity legislation, codes of practice and enterprise procedures * record keeping requirements * reporting incidents or issues * safety practices related to use of equipment and materials used in cleaning and pest control * basic requirements for ensuring the welfare of animals described in the relevant Codes of Practice, where animals are affected by biosecurity plans |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:  If any of the first level dot points do not apply to this unit, then please delete the point completely, e.g. if no interactions are needed with people at all, then you would delete the relationships point and second level points.   * [physical conditions:] * [e.g. skills must be demonstrated in [a commercial kitchen/a racing stable/veterinary practice/vineyard] or an environment that accurately represents workplace conditions] * [resources, equipment and materials:] * [e.g. live horses] * [e.g. use of specific tools] * [e.g. use of specific items of personal protective equipment] * [specifications:] * [e.g. use of specific workplace documents such as policies, procedures, processes, forms] * [e.g. use of manufacturer’s operating instructions for specific equipment, machinery, etc.] * [e.g. access to specific safety data sheets] * [e.g. use of workplace instructions/job specifications/client briefs] * [access to specific legislation/codes of practice] * [relationships: (include only if the individual needs to interact with internal and/or external people during assessment of skills): * [e.g. client(s), customer(s)] * [e.g. team member(s), supervisor(s)] * [timeframes: (include only if time is an essential assessment condition) * [e.g. according to time specified in job sheet] * [e.g. within a specific time period] * [final point only ends with a full stop.]   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.  Delete the following if there are no additional assessor requirements.  [In addition, the following specific assessor requirements apply to this unit:   * SI Bullet List 1 * SI Bullet List 1: * SI Bullet List 2.] |

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