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. |

| AHCBAC504 | Plan and manage a stored grain program |
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| Application | This unit of competency describes the skills and knowledge required to plan, implement and manage a grain storage program, and maintain records of stored grain movement.  This unit applies to individuals who apply specialised skills and knowledge to the planning and management of a stored grain program, and take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information and analyse, design and communicate solutions to sometimes complex problems.  All work must be carried out to comply with workplace procedures, health and safety in the workplace requirements, legislative and regulatory requirements, and sustainability and biosecurity practices.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Broad acre cropping (BAC) |

| 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 grain storage program | 1.1 Collect and analyse workplace documentation and financial information to develop the storage program  1.2 Identify, record and assess available storage facilities for suitability and capacity  1.3 Calculate and analyse projected grain production and delivery quantities, types and timeframes against storage capacity  1.4 Arrange and estimate cost of temporary storage  1.5 Evaluate the benefits, risks and costs of storing grain and compare to immediate sale of grain  1.6 Estimate timeframes and scheduling for delivery of grain to on site and off site storage facilities  1.7 Prepare program to include plans for annual, seasonal and short term periods, appropriate to achieve workplace goals and objectives  1.8 Document program, including scheduling and key responsibilities, and reporting type, format, frequency and detail required by managers and operators |
| 2. Plan integrated pest control for the storage area | 2.1 Organise grain testing and sampling for pest infestation  2.2 Record and analyse results of samples and tests for pest infestation  2.3 Develop and implement an integrated pest management (IPM) program to control grain insects and other pests in storage  2.4 Determine monitoring points, targets and methods to identify possible development of resistance in insects  2.5 Ensure pest control strategies meet end use requirements and customer expectations  2.6 Determine appropriate record keeping requirements and procedures to ensure compliance with applicable regulations  2.7 Document the program, including scheduling and key responsibilities, including the type, format, frequency and detail of any reporting required by both managers and operators |
| 3. Implement workplace health and safety program for grain storage area | 3.1 Identify workplace health and safety hazards within and surrounding the grain storage area  3.2 Develop, document and implement workplace health and safety procedures to reduce or eliminate risks  3.3 Communicate workplace health and safety procedures  3.4 Ensure the program describes the personal protective equipment and safety gear required to be used around the storage facilities  3.5 Determine workplace health and safety record keeping requirements and implement procedures  3.6 Ensure the program includes the type, format, frequency and detail of any reporting required by both managers and operators |
| 4. Manage the grain storage program | 4.1 Implement the grain storage program  4.2 Schedule and organise activities for efficient transport and storage of the grain  4.3 Implement pest control strategies according to the integrated pest management program  4.4 Ensure personal protective equipment and safety gear is provided to all people operating around the storage facilities  4.5 Ensure workplace health and safety procedures are implemented  4.6 Conduct checks to ensure that the performance indicators, targets and specifications are being met and make amendments to the program, where necessary  4.7 Communicate regularly with operational personnel throughout the storage, transport, sampling and chemical application operations to ensure efficient and safe operation and progress  4.8 Minimise environmental and biosecurity impacts of grain storage and movement activities according to workplace environmental and biosecurity procedures  4.9 Identify existing and potential problems and investigate likely causes  4.10 Consider, analyse, review and recommend alternative solutions to appropriate personnel for a decision |
| 5. Maintain records of stored grain movement | 5.1 Create, maintain and store records and documentation as described in the grain storage program, the IPM program, and workplace health and safety requirements  5.2 Complete appropriate records and documentation throughout the storage program  5.3 Ensure that the record keeping system is appropriate |

| 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 | * Identify and interpret workplace documentation and financial information regarding the grain storage program |
| Writing | * Develop a grain storage program, IPM program, workplace health and safety program, pasture and crop program and stored grain movement records |
| Oral communication | * Initiate discussions with operational and appropriate personnel, using clear language to ensure efficient and safe operation and progress |
| Numeracy | * Collect and analyse financial data * Calculate and analyse grain production and delivery quantities, including bulk density and capacity calculations * Estimate cost of temporary storage * Estimate grain production and delivery timeframes * Record and analyse pest infestation sample and test results |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCBAC504 Plan and manage a stored grain program  Release 2 | AHCBAC504 Plan and manage a stored grain program  Release 1 | Performance criteria clarified  Foundation skills added  Assessment requirements updated | 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 AHCBAC504 Plan and manage a stored grain 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 planned and managed a stored grain program on at least one occasion and has:   * undertaken a cost benefit analysis of grain storage * established procedures and controls for implementation by others * planned, scheduled, monitored and amended plans for operations * administered and co-ordinated operations on a site * explained, and delivered instructions about the plans and scheduling of the grain storage operations to personnel * observed, identified and reacted appropriately to environmental implications and workplace health and safety hazards * planned for storage needs based on grain production estimates * implemented an integrated pest management (IPM) program for grain storage * supervised procedures to manage workplace health and safety risk for the storage site, including working at heights and confined spaces * scheduled the storage and transport of grain * supervised personnel to monitor transport, storage, sampling and pest control procedures * maintained records of grain storage to meet quality requirements * developed and implemented workplace health and safety procedures, including working at heights and confined spaces * implemented workplace environmental and biosecurity procedures, including hygiene procedures for handling different grades and varieties of grains. | |

| 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:   * silo layout and operations, configuration, and maintenance procedures * safe working practices, especially in confined spaces and at heights * organisational priorities and policies in relation to: * production planning * chemical use * quality * personnel * operations * workplace internal and external reporting and recording requirements * grain marketing and commodity prices * use of technology in grain storage operations * integrated pest and weed management techniques * relevant legislation and regulations relating to chemical use and application, site management, and vehicle and plant use * sound management practices and processes to minimise noise, odours, and debris from grain storage operations * relevant workplace health and safety legislation and regulations * workplace environmental and biosecurity procedures. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * a workplace setting or an environment that accurately represent workplace conditions * resources, equipment and materials: * workplace documentation and financial information applicable to the storage program * specifications: * chemical use and application, site management, and vehicle and plant use legislation and regulations applicable to planning and managing a stored grain program * workplace health and safety legislation and regulations applicable to planning and managing a stored grain program * workplace environmental and biosecurity procedures applicable to planning and managing a stored grain program * relationships: * appropriate personnel * timeframes: * according to the job requirements.   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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