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 X.0. |
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 1.0. |

| AHCBAC403 | Supervise agricultural crop establishment |
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| Application | This unit of competency describes the skills and knowledge required to supervise agricultural crop establishment, including planning and scheduling seeding/planting based on the crop production plan.  The unit applies to individuals who take responsibility for 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 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. Source and assess information for input to crop establishment program | 1.1 Obtain and review crop production plan and related documentation  1.2 Assess competing demands on human and physical resources affecting crop establishment  1.3 Determine specific target area, or paddock, for crop from crop production plan  1.4 Review historical records of target area for potential impact on crop establishment program  1.5 Access and evaluate soil test and results to determine soil treatments for crop  1.6 Assess and account for trash levels and crop growing conditions |
| 2. Prepare crop establishment program | 2.1 Identify the crop and method of establishment from crop production plan  2.2 Assess and calculate the resources required for crop establishment operations  2.3 Set target dates and sequencing for crop establishment according to crop production plan  2.4 Select and organise treatments according to crop production plan  2.5 Identify health and safety hazards, assess risk and develop controls procedures  2.6 Identify and obtain approvals for planting operations from key stakeholders  2.7 Document measurable performance indicators, specifications and targets, for crop establishment according to workplace and industry standards |
| 3. Determine scheduling and key responsibilities | 3.1 Determine planting schedule from identified target dates and sequencing  3.2 Determine work team responsibilities for specific tasks and actions  3.3 Develop record keeping and reporting procedures for crop establishment key performance indicators  3.4 Document crop establishment program |
| 4. Monitor and adjust the crop establishment program | 4.1 Communicate work procedures and performance outcomes to work team and contractors  4.2 Monitor implementation of crop establishment against key performance indicators  4.3 Monitor work team performance against health, safety and environmental procedures  4.4 Monitor compliance with record keeping and reporting procedures  4.5 Review and reconcile crop establishment records and reports against key performance indicators  4.6 Implement corrective action for non-compliance with key performance indicators |

| 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, collate and analyse documentation for crop and its establishment for a defined site and purpose |
| Writing | * Develop and document plans and procedures for work team using clear and easily understood language in order to convey explicit information, requirements, recommendations and performance targets |
| Oral Communication | * Use collaborative and inclusive language and techniques including active listening, questioning and reading of verbal and non-verbal signals to convey and clarify procedural information, confirm work team understanding and compliance with specified procedures |
| Numeracy | * Use formula and numerical information to determine timing of crop and establish work schedules |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| AHCBAC403 Supervise agricultural crop establishment  Release 2 | AHCBAC403 Supervise agricultural crop establishment  Release 1 | Changes to Application. Minor changes to Performance Criteria.  Added Foundation Skills. Updated Performance Evidence, Knowledge Evidence and Assessment Conditions | Equivalent |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72> |

| TITLE | Assessment requirements for AHCBAC403 Supervise agricultural crop establishment |
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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 supervised the establishment of a crop and has:   * identified hazards, assessed risks and documented controls and monitored team adherence to safety procedures * identified resources required for establishing a crop * reviewed historical records for paddock, including: * previous crop species grown * crop rotation * weed, pest and disease impacts * identified the seasonal conditions affecting crop establishment * documented crop establishment program which must include: * pre-planting and post planting tillage method/s * planting method * timelines and schedules * key work team and contractor responsibilities * recognised crop establishment performance issues , including: * poor growth and lack of vigour * nutrient deficiencies * incorrect planting depth * pest, weed and disease control for pre or post planting * identified and established record keeping processes which must include: * type of records to maintain * format of record * frequency records to be kept * details of reporting responsibilities * supervised work team and crop establishment against key performance indicator and implemented corrective action. | |

| 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:   * equipment required for a range of crop establishment methods, including: * tillage, no-till and minimum till techniques and consequences * pre-planting pest and weed control * primary soil preparation including deep and sub soil * secondary tillage * seasonal influences * seeding and/or planting preparation for crop species * machinery and equipment required and its performance, including: * servicing and maintenance requirements * safe operation * impact on planting site * principles of precision agriculture and the role of technology in improving efficiencies, including: * self-drive, global position systems (GPS) and laser technologies * remote sensors * remote piloted systems * controlled traffic farming (CTF) principles and impacts * variable rate technology (VRT) * integrated pest and weed management techniques * environmental controls and codes of practice applicable to crop and paddock * legislation, codes of practice and enterprise procedures for work health and safety and environmental management * crop and seed standards and certification requirements * management practices and processes to minimise environmental impacts, including: * noise * soil degradation * debris from planting operations * chemical use and environmental impact * workplace health and safety, legislative requirements and enterprise policies and procedures, including: * safety in the workplace * chemical and hazardous substances * fire safety * personal protection. |

| Assessment Conditions |
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| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions: * skills must be demonstrated on broadacre farm or an environment that accurately represents workplace conditions * resources, equipment and materials: * use of planning and project management tools * access to word processing for documentation * specifications: * use of workplace policies, procedures and processes * access to safety data sheets * access to workplace production plans and specifications * access to legislation and codes of practice relevant to crop production * industry standards for crop production * relationships: * work team and contractors * timelines: * to be specified in schedules.   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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