

## Modification history

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

<b>AHCBA403</b>	<b>Supervise agricultural crop establishment</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to supervise agricultural crop establishment, including planning and scheduling plantings based on the planting plan.</p> <p>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.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Broad Acre Cropping (BAC)

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. Source and assess information for input to planting plan	1.1 Obtain documents relating to crop production 1.2 Assess competing demands on human and physical resources affecting planting 1.3 Determine specific target area, or paddock, for planting from production or management plan 1.4 Identify crop and pasture rotation, potential weed, pest and disease issues from paddock history 1.5 Evaluate soil test results to determine soil treatments 1.6 Assess and account for trash levels and seedbed conditions
2. Prepare planting plan	2.1 Determine the agricultural crop and method(s) of planting according to production or management plan 2.2 Assess and calculate the resources required for planting operations 2.3 Assess technology to ensure most efficient performance of operations 2.4 Set target dates, sequencing for planting according to production or management plan 2.5 Select and organise chemical applications required pre and post planting according to planting plan 2.6 Prepare plan to ensure environmental impact is mitigated 2.7 Identify health and safety hazards, assess risk and develop controls procedures 2.8 Identify and obtain approvals for planting operations from key stakeholders 2.9 Determine measurable indicators, specifications and targets, for production plan according to workplace and/or industry standards
3. Determine scheduling and key responsibilities	3.1 Determine planting schedule from planting plan 3.2 Determine key responsibilities for specific preparatory processes 3.3 Determine key responsibilities for specific implementation processes 3.4 Determine and implement recordkeeping processes 3.5 Document crop establishment plan

**Commented [RB1]:** Is this ag terminology? Assume this is waste left from previous crop/ use?

# AHCBAC403 Supervise agricultural crop establishment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Monitor and adjust the planting plan	4.1 Monitor crop establishment at key points specified in implementation plan 4.2 Monitor work team adherence to workplace health and safety procedures and environmental policies 4.3 Communicate work activities and performance outcomes to work team and contractors 4.4 Monitor compliance with record keeping and reporting procedures during planting process 4.5 Determine and implement corrective action or amendments to planting plan

Foundation Skills	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> <li>Identify, collate and analyse documentation for crop and its establishment for a defined site and purpose</li> </ul>
Writing	<ul style="list-style-type: none"> <li>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</li> </ul>
Oral Communication	<ul style="list-style-type: none"> <li>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</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Use formula and numerical information to determine timing of crop and establish work schedules</li> </ul>

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

Links	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a>
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TITLE	Assessment requirements for AHCBAC403 Supervise agricultural crop establishment
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has supervised the establishment of at least one crop and has:</p> <ul style="list-style-type: none"> <li>• identified hazards, assessed risks and documented controls and monitored team adherence to safety procedures</li> <li>• identified resources required for establishing a crop</li> <li>• identified the seasonal conditions which affect crop establishment</li> <li>• documented crop establishment plan which must include: <ul style="list-style-type: none"> <li>• pre-planting and post planting tillage method/s</li> <li>• planting method</li> <li>• timelines and schedules</li> <li>• key responsibilities</li> </ul> </li> <li>• recognised and rectified crop performance issues , including: <ul style="list-style-type: none"> <li>• poor growth and lack of vigour</li> <li>• nutrient deficiencies</li> <li>• incorrect planting depth</li> <li>• pest, weed and disease control for pre or post planting</li> </ul> </li> <li>• investigated and incorporated technology to improve efficiency</li> <li>• identified and established record keeping processes which must include: <ul style="list-style-type: none"> <li>• type of records to maintain</li> <li>• format of record</li> <li>• frequency records to be kept</li> <li>• details of reporting responsibilities</li> </ul> </li> <li>• supervised work team and monitored planting operation.</li> </ul>	
<b>Knowledge Evidence</b>	
<p>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:</p> <ul style="list-style-type: none"> <li>• equipment required for a range of tillage methods, including: <ul style="list-style-type: none"> <li>• pre-planting pest and weed control</li> <li>• primary tillage, including deep and sub soil</li> <li>• secondary tillage</li> <li>• year round</li> <li>• seedbed preparation</li> </ul> </li> <li>• crop establishment requirements</li> <li>• machinery and equipment required and its performance, including: <ul style="list-style-type: none"> <li>• servicing and maintenance requirements</li> <li>• safe operation</li> <li>• impact on planting site</li> </ul> </li> <li>• role of technology in improving efficiencies, including: <ul style="list-style-type: none"> <li>• self-drive, global position systems (GPS) and laser technologies</li> <li>• remote sensors</li> <li>• remote piloted systems</li> <li>• controlled traffic farming (CTF) principles and impacts</li> <li>• integrated pest and weed management techniques</li> </ul> </li> <li>• environmental controls and codes of practice applicable to crop and site</li> <li>• legislation, codes of practice and enterprise procedures for work health and safety and environmental management</li> <li>• crop and seed standards and certification</li> <li>• management practices and processes to minimise environmental impacts, including: <ul style="list-style-type: none"> <li>• noise</li> <li>• soil degradation, including controlled traffic farming (CTF) principles and impacts</li> <li>• debris from planting operations</li> </ul> </li> </ul>	

**Commented [RB2]:** Is this reasonable or should there be more than one crop?

Knowledge Evidence	
<ul style="list-style-type: none"> <li>chemical use and environmental impact</li> <li>workplace health and safety, legislative requirements and enterprise policies and procedures, including:                             <ul style="list-style-type: none"> <li>safety in the workplace</li> <li>chemical and hazardous substances</li> <li>fire safety</li> <li>personal protection.</li> </ul> </li> </ul>	
Assessment Conditions	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>physical conditions:                             <ul style="list-style-type: none"> <li>skills must be demonstrated on farm or an environment that accurately represents workplace conditions</li> </ul> </li> <li>resources, equipment and materials:                             <ul style="list-style-type: none"> <li>use of planning and project management tools</li> <li>access to word processing for documentation</li> </ul> </li> <li>specifications:                             <ul style="list-style-type: none"> <li>use of workplace policies, procedures and processes</li> <li>access to safety data sheets</li> <li>access to workplace production plans and specifications</li> <li>access to legislation and codes of practice relevant to crop production</li> <li>industry standards for crop production</li> </ul> </li> <li>relationships:                             <ul style="list-style-type: none"> <li>work team and contractors</li> </ul> </li> <li>timelines:                             <ul style="list-style-type: none"> <li>to be specified in schedules.</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	<p>Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72</a></p>