



Australian Government

AHCBAC205 Assist agricultural crop establishment

Release: 1

AHCBA205 Assist agricultural crop establishment

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to assist others in the preparation of materials, equipment and crop site for agricultural crop establishment and to assist in the crop production program.

The unit applies to individuals who work under general supervision and exercise limited autonomy with some accountability for own work. They undertake defined activities and work in a structured context.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Broad Acre Cropping (BAC)

Elements and Performance Criteria

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. Prepare for agricultural crop establishment operations	1.1 Interpret and implement instructions from supervisor 1.2 Prepare machinery, equipment and tools according to biosecurity and workplace procedures 1.3 Identify work health and safety hazards in crop establishment and report to supervisor 1.4 Select, use and maintain suitable personal protective equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	(PPE)
2. Prepare the site for crop establishment	2.1 Implement procedures to manage previous crop and waste materials according to supervisor instructions, biosecurity and environmental procedures 2.2 Apply soil amendments, according to supervisor instructions 2.3 Implement crop protection activities according to instructions and crop production plan 2.4 Confirm planting pattern according to crop production plan 2.5 Operate tools, machinery, equipment or technology according to workplace safety procedures and operator instructions
3. Carry out crop establishment operations	3.1 Treat seeds/planting material according to supervisor instructions 3.2 Handle and transport seeds/planting material according to supervisor instructions and workplace health and safety procedures 3.3 Carry out seed/planting operations according to supervisor instructions, crop production plan and biosecurity procedures
4. Complete establishment operation	4.1 Clean and sanitise tools and equipment according to instructions and biosecurity procedures 4.2 Clean worksite and dispose of waste according to workplace and environmental procedures 4.3 Maintain crop production records according to workplace procedures

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.

Skill	Description
Reading	Interpret, consolidate and check understanding and accuracy of instructions with supervisor
Writing	Use industry language and correct concepts and terminology when updating records

Skill	Description
Numeracy	- Perform basic mathematical calculations to determine correct volumes of fuel, lubricants and coolants - Perform basic calculations when setting machinery for crop establishment operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCBA205 Assist agricultural crop establishment	AHCBA201 Assist agricultural crop establishment	Minor editing of Application for clarity Minor changes to Element 3 heading and clarified Performance Criteria Foundation Skills refined Performance Evidence and Knowledge Evidence clarified and terminology updated Amended structure of Assessment Conditions	Equivalent

Links

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

Assessment Requirements for AHCBA205 Assist 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 assisted in the establishment of at least one agricultural crop in a broad acre setting, including:

- communicated with supervisor and team members and followed instructions and crop production plan
- performed paddock and ground preparations ready for planting including:
 - applied pre-planting soil treatments according to instructions
 - prepared planting equipment
- performed planting operations according to instructions and crop production plan including:
 - treated and planted crop
 - applied soil amendments if required
 - applied weed control treatments
- operated a range of crop establishment machinery or technology
- maintained records of preparation and planting according to workplace procedures
- used and maintained personal protective equipment (PPE)
- followed workplace work health and safety, biosecurity and environmental procedures.

Knowledge Evidence

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:

- basic principles of broad acre cropping and their establishment, including:
 - importance of correct timing and procedures for crop planting
 - field hygiene, biosecurity and quality control for crop establishment
 - a range of pre-planting soil treatments and amendments, their application and importance

- basics of managing previous crops including, cutting, slashing, rolling and burning stubble
- accumulation of waste and its disposal, including:
 - impact on the environment
 - types of waste common to cropping
 - procedures for the disposal of containers, leftover fluids, organic materials and other debris
- workplace health and safety, risks and hazards, including:
 - responsibilities for following safety instructions/directions
 - application and handling of agricultural chemicals
 - materials handling
- preparation and operation of common farm machinery used in crop establishment, including:
 - machinery operation and safety
 - manufacturer specifications
 - workplace procedures
- basic principles of precision agriculture and the role of technology in improving efficiencies, including:
 - self-drive, auto steer, global navigation satellite systems (GNSS) and laser technologies
 - digital and remote sensors
 - remote piloted systems
 - controlled traffic farming (CTF) principles and impacts
 - variable rate technology (VRT)
 - integrated pest and weed management techniques
- communication with team members and supervisor
- calculations and measurements required for:
 - determining quantities of materials for treatments and amendments
 - determining crop row spacing and density.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated on a broad acre farm or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - seeds or plants for planting
 - broad acre crop planting tools machinery and equipment or technology
 - personal protective equipment

- specifications:
 - workplace procedures and processes
 - manufacturer operating instructions for tools, equipment and machinery
 - specific safety data sheets for treatments and fertilisers
 - instructions and plans for planting
- relationships:
 - team member(s) and supervisor(s)

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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