



Australian Government

AHCBAC317 Undertake agricultural crop harvesting activities

Release: 1

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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 prepare equipment and resources for crop harvesting, determine crop readiness for harvest and harvest a crop safely and efficiently.

The unit applies to individuals who work under broad direction and take responsibility for own work including limited responsibility for the work of others. They use discretion and judgement in the selection and use of available resources and complete routine activities.

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 to harvest agricultural crops	1.1 Determine requirements for work according to harvest strategy and crop production plan 1.2 Identify work health and safety hazards, assess risk and implement controls according to workplace procedures 1.3 Select, check, use and maintain personal protective equipment (PPE) 1.4 Complete pre-harvest treatments to crop according to harvest

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	strategy and crop production plan 1.5 Sample crop for moisture content and report to supervisor to assess timing of harvest 1.6 Identify hygiene requirements for the crop and paddock according to harvest strategy, standards and storage plan
2. Prepare the harvesting equipment	2.1 Clean harvesting machinery and equipment or technology according to hygiene, biosecurity and fire mitigation standards 2.2 Assess and service machinery and equipment and make adjustments and repairs as required and according to manufacturer specifications 2.3 Record maintenance and servicing activities according to procedures
3. Harvest crops	3.1 Harvest crop according to harvest strategy for each paddock, 3.2 Operate harvesting machinery and ancillary equipment efficiently for conditions to ensure fire prevention measures are implemented 3.3 Maintain equipment hygiene and biosecurity procedures during crop harvest 3.4 Check and adjust harvester and ancillary equipment to ensure efficient and safe operation
4. Complete harvesting operations	4.1 Clean and store equipment, attachments and other ancillary equipment according to hygiene and biosecurity procedures 4.2 Apply treatments to crop according to harvest strategy 4.3 Dispose waste according to workplace and environmental procedures 4.4 Ensure harvesting equipment or technology is moved between sites and on public property according to workplace procedures and regulatory requirements 4.5 Maintain records and documentation of harvest 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 work plans and strategies to elicit harvesting work requirements and activities
Numeracy	• Calculate rates of application for pre-harvest crop treatments where specified in crop harvest plan • Perform calculations for calibrating and setting machinery for harvest operations • Calculate harvested yield rates

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCBAC317 Undertake agricultural crop harvesting activities	AHCBAC308 Undertake agricultural crop harvesting activities	Edited Application for clarity Changes to sequencing and editing of Performance Criteria for clarity 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 AHCBAC317 Undertake agricultural crop harvesting activities

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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 harvested at least one agricultural crop and has:

- sampled crops to assess readiness for harvest, including:
 - moisture content
 - maturity/ripeness of the crop
- implemented crop pre-treatment procedure
- used and maintained personal protective equipment (PPE)
- operated crop harvesting machinery and equipment, including:
 - handled and manoeuvred harvesting equipment or technology
 - used technology to improve efficiency
 - implemented pre-and post-operational checks on tools, harvesting machinery and equipment
 - performed routine, service and maintenance procedures on tools, harvesting machinery and equipment
 - transported, cleaned and stored harvesting equipment
 - monitored efficiency of harvesting equipment
 - made adjustments to settings to improve harvest efficiency
- implemented procedures for seed handling, hygiene and biosecurity
- maintained records and documentation
- identified health and safety hazards, assessed risk and implement safety procedures for harvest tasks including:
 - implemented fire prevention measures
 - performed harvesting safely.

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:

- manufacturer specifications and workplace procedures
- operation of crop harvesting machinery and equipment, including:
 - safety and use of equipment
 - handling and manoeuvring of harvesting equipment
 - pre-and post-operational checks on tools, harvesting machinery and equipment
 - routine, service and maintenance procedures for tools, harvesting machinery and equipment
- 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 pre-harvest treatments and their application in broadacre crops, including:
 - windrowing
 - swathing
 - chemical desiccants
- crop features and recognition of readiness for harvesting, including:
 - sampling crops
 - assessing samples for harvesting
 - post-harvest treatments of crops
- workplace, federal and international standards for harvested crops
- procedures for seed handling and hygiene
- workplace health and safety procedures including:
 - broadacre farm hazards, risks and controls
 - working near harvesting machinery and equipment
 - working at heights and confined spaces with storage bins
 - power lines and elevated equipment safety
 - fire risk for equipment and stored crop
- workplace environmental and biosecurity policies and practices.

Assessment Conditions

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

- • physical conditions:

- skills must be demonstrated in on broadacre farm with paddocks of agriculture crop ready for harvest or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - harvestable crop
 - harvesting tools, equipment or technology and machinery
 - personal protective equipment (PPE)
 - crop sampling equipment
- specifications:
 - workplace policies, procedures, processes for harvesting
 - manufacturer operating instructions for tools, equipment and machinery
 - crop harvest specifications
- relationships:
 - 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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