



Australian Government

AHCBAC417 Manage agricultural crop production

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 determine crop requirements, implement a crop growing and maintenance program and harvest an agricultural crop.

The unit applies to individuals who demonstrate deep knowledge in a specific technical area, take personal responsibility and exercise autonomy in undertaking complex work. They organise the work of self and others and analyse, design and communicate solutions to sometimes complex problems.

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. Determine requirements for an agricultural crop establishment program	1.1 Select plant varieties best suited to soil, climate, seasonal conditions and marketing goals 1.2 Determine available soil moisture and water requirement for crop 1.3 Assess available water reserves and develop a water management plan for crop production 1.4 Determine crop nutrient requirements to achieve required yield

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	according to environmental procedures 1.5 Determine fertiliser program from crop nutrient requirements 1.6 Assess technology to ensure most efficient performance of operations 1.7 Identify and maintain budgetary requirements 1.8 Develop a crop establishment program according to crop production plan 1.9 Identify health and safety hazards, assess risk and develop and implement controls procedures
2. Implement crop maintenance	2.1 Implement strategies to reduce or eradicate weed infestation 2.2 Apply fertilisers at rates specified in fertiliser program 2.3 Monitor soil moisture and implement water management plan to maintain crop 2.4 Determine and implement processes to minimise waste and soil degradation according to environmental management policies
3. Monitor an agricultural crop through to harvest	3.1 Determine trends in weed, pest and disease incidence, and implement control measures 3.2 Monitor soil structure and erosion and implement changes to production practices according to production plan 3.3 Check and maintain irrigation and drainage systems 3.4 Monitor crop maturity and undertake harvesting to meet marketing and production targets
4. Implement the harvest strategy	4.1 Apply pre-harvest pest control treatments conditional on weather according to harvesting plan and environmental procedures 4.2 Ensure required labour and equipment is ready and available at the scheduled place and time 4.3 Communicate crop harvest procedures and performance expectations to harvesting and transport operators 4.4 Implement crop harvest order and procedures as scheduled in harvesting plan 4.5 Monitor harvesting operations and implement contingencies for weather, contracting and equipment maintenance
5. Record production	5.1 Maintain records of crop production according to workplace

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	procedures 5.2 Store records according to workplace requirements

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
Oral Communication	Use collaborative and inclusive techniques including active listening and questioning and reading of verbal and non-verbal signals to convey and clarify work requirements and performance expectations
Numeracy	- Use formula and numerical information to calculate financial data and interpret basic statistical and analytical data - Apply basic financial modelling skills to identify, analyse and evaluate budgetary information, time durations and resource allocations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCBAC417 Manage agricultural crop production	AHCBAC408 Manage agricultural crop production	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	Equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
		updated Amended structure of Assessment Conditions	

Links

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