



**Australian Government**

# **AHCBAC413 Plan and implement agricultural crop maintenance**

**Release: 1**

# AHCBAC413 Plan and implement agricultural crop maintenance

## 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 assess the condition for a broadacre crop and plan and implement control and maintenance activities.

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.

## 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 condition of agricultural crops     | 1.1 Measure and assess soil moisture and calculate soil water percentage<br>1.2 Calculate water requirements from soil analysis data, standing crop, and forecasted weather conditions<br>1.3 Assess nutrient requirements and availability for crops and identify deficiencies<br>1.4 Communicate with industry, suppliers and work team to identify |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                   |
|                                                  | <p>factors affecting crop growth and crop load potential</p> <p>1.5 Identify health and safety hazards, assess risk and develop and implement controls procedures</p>                                                                                                                                                                                                                                                                                                    |
| 2. Determine pest control                        | <p>2.1 Assess evidence of pests and disease and determine control measures</p> <p>2.2 Locate and identify areas of weed infestation for control or eradication</p> <p>2.3 Select control methods according to workplace management strategies</p> <p>2.4 Schedule suitable control methods according to crop production plan</p> <p>2.5 Maintain records on infestations and treatments used</p>                                                                         |
| 3. Manage crop health                            | <p>3.1 Monitor crop to maintain water and nutritional requirements for optimal production</p> <p>3.2 Implement sustainable land management practices</p> <p>3.3 Monitor weed and pest levels according to crop production plan</p> <p>3.4 Assess, document and analyse benefits from soil and plant inputs and treatments</p> <p>3.5 Monitor and document cropping programs</p> <p>3.6 Document and record data for continual analysis and effective crop management</p> |
| 4. Review agricultural crop maintenance program  | <p>4.1 Collate records of crop maintenance</p> <p>4.2 Reconcile planned crop maintenance outcomes against targets</p> <p>4.3 Review and document changes to crop maintenance program, including the role of technology in improving efficiencies for future implementation</p>                                                                                                                                                                                           |

## 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            | <ul style="list-style-type: none"> <li>Interpret safety data sheets (SDSs), production plans and analysis results</li> <li>Identify, collate and analyse historical records and documentation for previous crops to input into maintenance plan</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 and eliciting information from specialists and suppliers</li> </ul> |

## Unit Mapping Information

| Code and title current version                             | Code and title previous version                            | Comments                                                                                                                                                                                                                                                                 | Equivalence status |
|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| AHCBAC413 Plan and implement agricultural crop maintenance | AHCBAC404 Plan and implement agricultural crop maintenance | Edited Application<br>Added new Element<br>Minor changes and consolidation of Performance Criteria for clarity<br>Foundation Skills refined<br>Performance Evidence and Knowledge Evidence updated and terminology updated<br>Amended structure of Assessment Conditions | Not equivalent     |

## Links

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