



**Australian Government**

# **AHCSDP403 Plan and implement seed crop maintenance**

**Release: 1**

# AHCSDP403 Plan and implement seed crop maintenance

## Modification History

| Release | TP Version | Comment         |
|---------|------------|-----------------|
| 1       | AHCv1.0    | Initial release |

## Application

This unit of competency describes the skills and knowledge required to plan and implement seed crop maintenance. It applies to workers on properties where commercial seed production is undertaken.

It applies to individuals who analyse information and exercise judgement to complete a range of advanced skilled activities and demonstrate deep knowledge in a specific technical area. They have accountability for the work of others and analyse, design and communicate solutions to a range of complex problems. All work is carried out to comply with workplace procedures.

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

## Pre-requisite Unit

Nil.

## Unit Sector

Seed production (SPD)

## Elements and Performance Criteria

| Element                                   | Performance criteria                                                                                                                                                                                                                                                               |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                    |
| 1. Determine condition of seed crops      | 1.1 Calculate soil water percentage from an assessment of soil moisture<br>1.2 Calculate water requirement according to soil analysis data, standing crop and forecast weather conditions<br>1.3 Assess nutrient requirements and availability for crops and identify deficiencies |

| Element                   | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | 1.4 Identify factors affecting crop capacity<br>1.5 Implement sustainable land management                                                                                                                                                                                                                                                                                                                                                        |
| 2. Determine pest control | 2.1 Assess evidence of pests and disease and determine integrated control measures appropriate to type and species of infestation<br>2.2 Locate areas of weed infestation and identify species<br>2.3 Select integrated control methods to control pests and weeds<br>2.4 Schedule control methods at the optimum time<br>2.5 Record severity of infestations and keep treatment records                                                         |
| 3. Manage crop health     | 3.1 Maintain crop water and nutritional requirements<br>3.2 Monitor the weed and pest control program and modify as required<br>3.3 Assess benefits from soil and plant inputs and treatments and document for analysis in future management programs<br>3.4 Monitor cropping programs for efficiency and effectiveness and document for future best practice<br>3.5 Document relevant data for continual analysis and effective crop management |

## Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

## Unit Mapping Information

This unit is equivalent to AHCSDP403A Plan and implement seed crop maintenance.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

# Assessment Requirements for AHCSDP403 Plan and implement seed crop maintenance

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## Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- assess crop needs
- carry out crop cultural practices and treatments
- determine time of harvest with specialist advice
- determine water requirements from survey advice and weather forecasts
- measure soil moisture and interpret data
- monitor and assess crop maturity

## Knowledge Evidence

The candidate must demonstrate knowledge of:

- principles and practices of seed crop maintenance
  - chemical use if applicable
  - crop growth requirements compared to soil nutrient status
  - crop growth stages and keys
  - factors leading to development of chemical resistance
  - fertiliser and soil ameliorant types and application times, methods and rates
  - integrated pest management strategies
  - legislation and codes of practice with regard to environmental protection
  - life-cycles of pest, diseases and weeds
  - relevant codes of practice with regard to the use and control of hazardous substances
  - work health and safety legislative requirements

## Assessment Conditions

Assessors must satisfy current standards for RTOs.

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