



Australian Government

Assessment Requirements for AHCBAC412 Supervise agricultural crop establishment

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.

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 on at least one occasion supervised the establishment of a crop and has:

- identified hazards, assessed risks and documented controls and monitored team adherence to safety procedures
- identified resources required for establishing a crop
- reviewed historical records for paddock, including:
 - previous crop species grown
 - crop rotation
 - weed, pest and disease impacts
- identified the seasonal conditions affecting crop establishment
- documented crop establishment program which must include:
 - pre-planting and post planting tillage method/s
 - planting method
 - timelines and schedules
 - key work team and contractor responsibilities
- recognised crop establishment performance issues, including:
 - poor growth and lack of vigour
 - nutrient deficiencies
 - incorrect planting depth
 - pest, weed and disease control for pre or post planting
- identified and established record keeping processes which must include:
 - type of records to maintain
 - format of record
 - frequency records to be kept
 - details of reporting responsibilities

- assessed the role of technology in improving efficiencies
- supervised work team and crop establishment against key performance indicator and implemented corrective action.

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:

- equipment required for a range of crop establishment methods, including:
 - tillage, no-till and minimum till techniques and consequences
 - pre-planting pest and weed control
 - primary soil preparation including deep and sub soil
 - secondary tillage
 - seasonal influences
 - seeding and/or planting preparation for crop species
- machinery and equipment required and its performance, including:
 - servicing and maintenance requirements
 - safe operation
 - impact on planting site
- 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)
- environmental controls and codes of practice applicable to crop and paddock
- legislation, codes of practice and workplace procedures for work health and safety and environmental management
- crop and seed standards and certification requirements
- management practices and processes to minimise environmental impacts, including:
 - noise
 - soil degradation
 - debris from planting operations
 - chemical use and environmental impact
 - integrated pest and weed management techniques
 - rubbish removal
- workplace health and safety, legislative requirements and workplace policies and procedures, including:
 - safety in the workplace

- chemical and hazardous substances
- fire safety
- personal protection
- power lines and elevated equipment.

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 broadacre farm or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - planning and project management tools
 - word processing for documentation
- specifications:
 - workplace policies, procedures and processes
 - safety data sheets
 - workplace production plans and specifications
 - legislation and codes of practice relevant to crop production
 - industry standards for crop production
- relationships:
 - work team and contractors
- timelines:
 - to be specified in schedules.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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