



Australian Government

Assessment Requirements for AHCBAC315 Establish agricultural crops

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 established at least two agricultural crops and has:

- confirmed crop establishment requirements with crop production plan
- identified health and safety hazards, assessed the risk and implemented controls
- sown seed and applied soil fertilisers/treatments at the required placement and rate
- coordinated weeds, pest and disease controls with sowing, including:
 - identified types of weeds, pests and diseases harmful to crop establishment
 - selected and applied controls
- prepared and safely operated machinery and equipment or technology, including:
 - performed pre-operational and safety checks
 - maintained machinery and equipment
 - calibrated according to planned outcomes
 - attached and detached supplementary equipment
 - recognised and reported machinery faults and perform minor repairs
 - cleaned, secured and stored machinery and equipment
 - selected and used personal protective equipment (PPE)
- maintained accurate records for the following:
 - equipment or technology faults and servicing
 - workplace hazards and incidents
 - crop establishment operations
- used equipment or technology safely and efficiently to perform the following operations:
 - applied soil remediation
 - applied pre-planting treatments
 - sowed/planted the crop

- applied fertilisers/soil amendments
- monitored environmental impact of establishing crop
- prepared and implemented contingency plans for unsuitable weather conditions
- followed workplace health and safety, environmental and biosecurity procedures.

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:

- crop types, preparation of seeds, seeding methods and application techniques
- fertiliser types, rates of application and crop nutrient requirements
- effects of weather conditions both normal and adverse, on seeding and fertilising applications
- operating principles and operating methods for machinery and equipment, including:
 - pre-operational and safety checks, servicing and maintenance procedures for seeding machinery and equipment
 - principles of weight distribution with regard to load shifting and vehicle movement
 - adverse weather conditions and machinery operation
- sustainable land management and soil conservation techniques, including:
 - stubble management
 - minimum till
 - no-till
- 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)
 - integrated pest and weed management techniques
- procedures for cleaning, securing and storing machinery, equipment and materials
- workplace policies regarding seeding/planting operations, and recording and reporting routines
- workplace health and safety policies and procedures including:
 - use chemicals and fertilizers
 - personal protective equipment (PPE) and when and how it should be used
 - relevant state/territory legislation and regulations
 - farm fire safety with dried crops, stubble and accumulation in equipment
 - power lines and elevated equipment safety
- licensing requirements and the use and control of machinery and equipment on public land

- workplace biosecurity and environmental policies.

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 a broadacre farm or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - seeds, fertilisers and treatments
 - tools, equipment and machinery for preparing and sowing crops
 - personal protective equipment (PPE)
- specifications:
 - workplace policies, procedures, processes
 - safety data sheets for fertilisers and treatments
 - manufacturer specifications
 - workplace plans and specifications
- relationships:
 - supervisor
- timeframes:
 - according to specified timeframes and efficiencies.

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>