



Australian Government

Assessment Requirements for AHCBAC309 Undertake preparation of land for 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.

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 prepared land for at least one agricultural crop and has:

- interpreted and implemented crop production activities according to plans, specifications, crop quality standards and work procedures
- fitted and used PPE
- conducted accurate measurements for materials and land specifications
- adjusted, calibrated and maintained cultivation equipment
- conducted pre- and post-operational checks on tools, vehicles and equipment
- used tools, machinery and equipment safely incorporating technology to improve efficiency during land preparation
- followed workplace health and safety, biosecurity and environmental procedures and practices
- cleaned and stored vehicles, equipment and machinery
- disposed of waste
- maintained records and documentation.

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:

- principles of soils preparation and effect on crop establishment including expected standards for different crop types
- soil types and impact of methods for land preparation for crop production, including:
 - cultivation
 - deep ripping
 - spading

- mouldboard ploughing
- minimum tillage and direct seeding
- environmental issues relating to soil preparation activities for cropping, including:
 - drainage and irrigation systems
 - soil nutrition and amelioration
 - waste disposal procedures
 - disposal or incorporation of preceding crops
 - legality and impact of land clearing
- 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
- a range of pre-planting chemical or organic treatments, their purpose and method of application
- safe operation and maintenance of land preparation equipment
- work health and safety procedures and principles, including:
 - manual handling
 - exposure to hazardous substances
 - working safely around farm machinery
 - fire risk and control strategies
 - power lines and elevated equipment safety
- 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
- relationships
 - supervisor
- resources, equipment and materials:
 - site preparation tools, machinery and equipment
 - fertilisers, ameliorants and treatments
 - personal protective equipment (PPE)

- specifications:
 - workplace policies and procedures
 - manufacturer operating instructions for tools, equipment and machinery
 - workplace plans and specifications

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>