



Australian Government

Department of Education, Employment and Workplace Relations

AHCSDP301A Undertake preparation of land for seed crop production

Release 1

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Modification History

Release	TP Version	Comments
1	AHC10v4	Initial release

Unit Descriptor

This Unit covers the process of preparing land for seed crop production and defines the standard required to: interpret production/planting plans; produce standards, quality specifications and work procedure documents; measure materials and site plan specifications; service, operate, adjust and calibrate cultivation equipment safely; and complete pre- and post-operational checks on tools, vehicles and equipment.

Application of the Unit

This Unit applies to farm workers operating under limited supervision from others with checking only related to overall progress. Preparing land for seed crop production is usually done within established routines, methods and procedures. Some discretion and judgement are required in the selection of equipment and materials, organisation of work and services. The outcomes should be achieved within specified timelines.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Nil.

Employability Skills Information

This Unit contains employability skills

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a Unit of Competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for cultivation	1.1 Requirements for the work to be undertaken are interpreted from the planting plan and confirmed with the manager. 1.2 The method and order of cultivation is identified and interpreted from the planting plan. 1.3 Occupational Health and Safety (OHS) hazards are identified; risks assessed and suitable controls implemented. 1.4 Suitable personal protective equipment is selected, used and maintained. 1.5 Environmental implications of cultivating the site are identified, likely outcomes assessed and, if necessary, responsible action taken.
2. Prepare the cultivating equipment	2.1 Vehicles, machinery and equipment required for cultivation are cleaned and inspected according to organisation guidelines and certified seed production procedures. 2.2 Vehicles and equipment are serviced, adjusted for the conditions and worn parts are replaced to ensure reliability during cultivation. 2.3 All containers, leftover fluids, waste and debris from the maintenance and servicing work are disposed of safely and appropriately. 2.4 All maintenance and servicing is documented according to the requirements of the organisation's record keeping system.
3. Cultivate soil	3.1 Previous crop or land clearance debris is removed, incorporated or burnt according to the organisation's guidelines. 3.2 The cultivation plan is followed and completed for each paddock. 3.3 OHS hazards are identified, risks assessed and suitable controls implemented. 3.4 Suitable personal protective equipment (PPE) is selected, used and maintained. 3.5 Vehicles and equipment are operated in a safe, effective and efficient manner and at speeds to suit the conditions. 3.6 The quality of cultivation is maximised by continually checking and adjusting the vehicles and equipment as necessary. 3.7 All timelines, resource and quality requirements of the planting plan are met.
4. Prepare site for planting	4.1 The planting layout and soil profiles are completed as required by the planting plan. 4.2 Weed and pest control measures are taken as required by the planting plan.

- 4.3 Fertilisers, ameliorants, and/or other pre-planting treatments are applied as required by the planting plan.
 - 4.4 The environmental implications of site preparation are identified, likely outcomes assessed and, if necessary, responsible action is taken.
- 5. Complete land preparation operations
 - 5.1 Equipment is cleaned according to manufacturer specifications, organisational procedures and regulations.
 - 5.2 Vehicles and equipment are cleaned and stored to minimise damage according to manufacturer specifications, organisational procedures and regulations.
 - 5.3 All containers, leftover fluids, waste and debris from the cleaning and maintenance work are disposed of safely and appropriately.
 - 5.4 All required **records** and documentation are completed accurately and promptly according to organisational requirements.

Required Skills and Knowledge

This section describes the skills and knowledge required for this Unit.

Required skills include:

Ability to:

- interpret production/planting plans, produce standards, quality specifications and work procedure documents
- measure materials and site plan specifications
- operate, adjust and calibrate cultivation equipment safely
- complete pre- and post-operational checks on tools, vehicles and equipment
- perform routine safety, service and maintenance procedures on tools, cultivator and equipment
- read and interpret manufacturer specifications, work and maintenance plans, and material safety data sheets (MSDS)
- interpret and apply task instructions
- communicate with work team and supervisor
- record and report faults, workplace hazards and accidents
- use numeracy skills to estimate, calculate and record routine workplace measures
- use interpersonal skills to work with and relate to people from a range of cultural, social and religious backgrounds and with a range of physical and mental abilities.

Required knowledge includes:

Knowledge of:

- methods of cultivating a range of soil types
- environmental issues of cultivating soil for planting, such as drainage and irrigation systems, soil amelioration and waste disposal procedures
- a range of pre-planting treatments, their purpose and method of application
- operation and maintenance of planting equipment
- OHS guidelines, procedures and principles, including manual handling and exposure to hazardous substances
- procedures and standards for certified seed.

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this Unit	The evidence required to demonstrate competency in this Unit must be relevant to workplace operations and satisfy holistically all of the requirements of the performance criteria and required skills and knowledge and include achievement of the following: • interpret production/planting plans, produce standards, quality specifications and work procedure documents • measure materials and site plan specifications • service, operate, adjust and calibrate cultivation equipment safely • complete pre- and post-operational checks on tools, vehicles and equipment.
Context of and specific resources for assessment	Competency requires the application of work practices under work conditions. Selection and use of resources for some worksites may differ due to the regional or enterprise circumstances.
Method of assessment	This Unit should be assessed together with core units and other units of competency relevant to the function or work role.
Guidance information for assessment	To ensure consistency of performance, competency should be demonstrated on more than one occasion over a period of time in order to cover a variety of circumstances, cases and responsibilities, and where possible, over a number of assessment activities.

Range Statement

The range statement relates to the Unit of Competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<i>Crops</i> may include:	• wheat and coarse grains • cotton • grain legumes • oilseeds • temperate pastures • tropical pastures • vegetables and other horticultural seed crops.
<i>Records</i> may include:	• sowing date • application rate • seed line number • bag tags.

Unit Sector(s)

Seed Production