



Australian Government

AHCBAC410 Plan and implement a pasture establishment program

Release: 1

AHCBAC410 Plan and implement a pasture establishment program

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to plan and oversee the implementation of a pasture establishment program.

The unit applies to individuals who take responsibility for their own work and for the quality of the work of others. They use discretion and judgement in the selection, allocation and use of available resources.

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

Pre-requisite Unit

Nil

Unit Sector

Broad Acre Cropping (BAC)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine requirements for pasture establishment program	1.1 Assess pasture site for current condition and suitability for replacement 1.2 Identify pasture species and cultivars suitable to soil, climate, seasonal conditions and livestock goals 1.3 Identify and select pasture establishment procedures consistent with site parameters

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Assess and program equipment and technologies to ensure most efficient performance of operations 1.5 Determine post-planting care according to production needs, enterprise standards and site capabilities 1.6 Identify and assess plant germination and nutrient requirements according to soil characteristics 1.7 Identify, cost and confirm availability of materials and resources 1.8 Identify health and safety hazards, assess risk and develop controls
2. Develop plan for pasture establishment program	2.1 Collate identified production requirements for pasture establishment and prepare detailed plans 2.2 Develop and document procedures for work team to follow 2.3 Develop on-site planting procedures and schedules 2.4 Develop post-planting procedures for pasture care 2.5 Plan for contingencies and identify alternative strategies
3. Oversee implementation of pasture establishment program	3.1 Communicate procedures to work team 3.2 Monitor implementation of pasture establishment program 3.3 Implement contingencies and alternate strategies as planned conditions change 3.4 Record progress and outcomes of pasture establishment during implementation according to workplace procedures
4. Review pasture establishment program	4.1 Collate records of implemented pasture establishment program 4.2 Reconcile planned program outcomes against actual outcome 4.3 Review and document changes to pasture establishment program for future implementation

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
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Skill	Description
Reading	Research and analyse documentation for pasture species to identify suitable species for a defined site and purpose
Writing	Develop and document plans and procedures for work team using clear and easily understood language to convey explicit information, requirements, recommendations and performance targets.
Oral Communication	Use collaborative and inclusive language and techniques including active listening, questioning and reading of verbal and non-verbal signals to convey and clarify procedural information and confirm work team understanding
Numeracy	- Use formulae and numerical information to calculate financial data and interpret basic statistical and analytical data - Apply basic financial modelling skills to identify, analyse and evaluate budgetary information, time durations and resource allocations and scheduling

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCBAC410 Plan and implement a pasture establishment program	AHCBAC402 Plan a pasture establishment program	Title change Edited Application for clarity Changes to sequencing and amendments to Performance Criteria for clarity Added Elements and Performance Criteria Foundation Skills refined Performance Evidence and Knowledge Evidence clarified and terminology updated Amended structure of Assessment Conditions	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

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

Assessment Requirements for AHCBA410 Plan and implement a pasture establishment program

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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 prepared and planned a pasture establishment program and has:

- determined a pasture establishment program consistent with the following parameters:
 - seasonal conditions
 - site and soil characteristics
 - production plans
 - additional available resources and equipment
- identified a suitable pasture species for the site and proposed land use and selected suitable species and cultivars
- prepared and documented a pasture establishment program which must include:
 - tools, equipment and machinery or technology required for planting
 - post-planting treatments
 - identification of suppliers, contractors and other personnel
 - materials and consumables
 - procedures for work team to easily follow
 - soil moisture management
- assessed site pasture for production potential
- assessed site factors influencing production
- identified threats to pasture establishment, including:
 - weeds
 - pests
 - diseases
- developed strategies for weed, pest and disease control
- determined resources and equipment for planting and post-planting care
- prepared plans, procedures and schedules for pasture establishment

- planned appropriate use of technology to improve efficiency
- incorporated and implemented workplace health, safety, environmental and animal welfare policies in plans and procedures
- implemented, monitored and recorded outcomes of pasture establishment program
- reviewed and documented changes to pasture establishment program.

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:

- selection and use of pasture varieties, including:
 - characteristics
 - requirements
 - production potential
- pasture establishment techniques of specific species and cultivars
- advantages and disadvantages of a range of pasture establishment procedures
- maintenance requirements and practices for specific pasture species and cultivars after initial establishment
- livestock production systems and their integration with pasture production
- planning process, including:
 - costing
 - scheduling of works
- preparation and documentation of procedures
- identification of pasture problems and threats, including:
 - weed species
 - vertebrate and invertebrate pests
 - diseases
 - soil conditions
 - integrated pest and weed management techniques
- role of pasture in sustainable land use
- soil moisture management strategies for pastures
- 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)
- workplace health and safety, legislative requirements and enterprise policies and procedures, including:
 - safety in the workplace

- chemical and hazardous substances
- fire safety
- personal protection
- environmental impacts of pasture establishment
- reviewing plans and programs, including:
 - monitoring implementation and importance of records
 - assessing programs in need of change
 - updating and changing programs and their related procedures.

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 with pasture suitable for livestock production or an environment that accurately represents workplace conditions
- relationships
 - work team
- resources, equipment and materials:
 - planning and project management tools
 - word processing equipment for documentation
- specifications:
 - workplace policies, procedures and processes
 - safety data sheets
 - workplace production plans, specifications and financial budget formats
 - legislation and codes of practice relevant to livestock production.

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

Links

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