



Australian Government

Assessment Requirements for AHCBAC411 Manage pastures for livestock 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 on at least one occasion managed a broadacre pasture for livestock production and has:

- determined soil quality and land use capability
- determined fertiliser, ameliorants and biological inputs required to support production using the following:
 - pasture type
 - soil analysis
 - production targets
- set objectives and milestones for pasture production
- calculated costs of production
- determined pasture water requirements using each of the following:
 - pasture species demand
 - local rainfall
 - water reserves and availability
 - evapo-transpiration data
 - irrigation potential
- assessed grazing and rest periods for pasture types after assessing:
 - pasture quality
 - quantity
 - coverage and persistence
- monitored the productivity and feed intake of grazing livestock
- developed grazing strategies and planned infrastructure required
- assessed the impact of grazing on pasture productivity and resilience
- identified pasture species and estimated dry matter production of pasture
- assessed options to control weed infestation

- identified strategies for pest and disease control
- established production targets for each pasture type on property
- developed a pasture management program according to production targets and workplace objectives
- implemented grazing program to reduce or eradicate areas of weed infestation
- monitored soil health and grazing management to ensure sustainable pasture and optimal livestock production levels
- monitored pasture yields and evaluated against forecast production levels
- considered how technology can be used to improve efficiency
- maintained records for analysis of pasture and livestock production, including:
 - physical
 - financial
- implemented workplace health, safety, and environmental policies and 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:

- livestock production systems and property requirements
- land and soil conditions and assessment
- pasture species and their growing requirements, including water
- pasture grazing strategies
- basic budgeting and the cost of production, including:
 - basic financial analysis
 - estimating costs
 - importance of financial records
- soil nutrient and fertility, including:
 - interpretation of soil analysis reports
 - pasture nutrient requirements
 - impact of soil biological processes
- environmental management strategies in land use and the impact of practices, including:
 - soil moisture and erosion control
 - chemical and waste contamination
 - weed and pasture impact on adjoining properties
- weed control strategies, including:
 - infestation patterns for different types of weed
 - grazing methods used to control species
 - impact of weeds on productivity and livestock health
 - integrated pest and weed management techniques
- 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)
- water management for pastures, including:
 - drainage systems and maintenance
 - soil moisture retention strategies
 - irrigation systems for broadacre farms and pastures
- workplace health and safety, legislative requirements and workplace policies and procedures, including:
 - safe handling
 - chemical and hazardous substances
 - fire safety
 - personal protection
 - working near power lines with elevated equipment
- codes of practice, legislation and regulations relating to farm production, including:
 - environmental
 - animal welfare and ethics
 - health and safety.

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 with land suitable for pasture and livestock production or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - livestock
 - tools, equipment or technology
 - chemicals and consumables for fertilising and treating pasture
- specifications:
 - workplace policies, procedures and processes
 - manufacturer operating instructions for tools and equipment
 - access to safety data sheets, workplace production plans, specifications and financial budgets
 - 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

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