

PRODUCE DAIRY FORAGE

UNIT CODE: DA/OS/FM/CR/02/3/B

UNIT DESCRIPTION

This unit specifies the competencies required to produce dairy forage. It involves Applying food safety measures while participation in land preparation; soil fertility maintenance; and forage establishment, management, conservation and storage.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the Range</i>
1. Prepare to produce dairy forage	1.1 <i>Forage</i> planting land is prepared using correct <i>farm tools, implements and machinery</i> in accordance with the planting material 1.2 Soil for analysis is collected as per as per sampling procedure 1.3 <i>Safe Planting materials</i> are prepared according to Good Agricultural Practices (GAP) and work place policy. 1.7 Soil erosion is controlled based on topography, soil type and level of degradation. 1.8 PPEs are identified and gathered as per work instructions based on the code of practice for milk and milk products, code of practice for animal feed industry and public health regulations. 1.9 Occupational safety and health procedures are adhered to according to work place procedures and public health regulations. 1.10 Environmental protection measures are observed according to <i>environment protection regulations</i> and work place procedures
2. Produce dairy forage	2.1 Forage materials are planted as per GAP and livestock production manual

	<p>2.2 Planted materials are gapped as per spacing requirements</p> <p>2.3 Weeds in forage are controlled as per GAP based on the pest control products act (Cap 346)</p> <p>2.4 Pests and diseases in forage are controlled following GAP regulations based on the pest control products act (Cap 346)</p> <p>2.5 Planted forage is fertilized and irrigated as per soil conditions and livestock production manual based on fertilizer application standards, fertilizer and animal foodstuffs Act (Cap345) and guidelines for treated waste water used for irrigation.</p> <p>2.6 Dairy forage is harvested in accordance with the livestock production manual</p>
<p>3. Evaluate forage produced</p>	<p>3.1 Quantity and safety of forage produced is determined based on livestock production manual and farm production projections</p> <p>3.2 Errors are detected and reported based on workplace policy</p>
<p>4. Complete dairy forage production</p>	<p>4.1 Dairy forage is conserved as per forage type and work instructions based on the code of practice for the animal feed industry and livestock production manual.</p> <p>4.2 Dairy forage is stored as per type of conserved forage and work instructions based on the code of practice for the animal feed industry and livestock production manual.</p> <p>4.3 Surplus materials and supplies are stored as per manufacturer's instructions and the code of practice for the animal feed industry.</p> <p>4.4 Waste is disposed of with due regard to work place policy and environmental protection regulations</p>

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. Forage includes but not limited to	<ul style="list-style-type: none">• Pastures - Kikuyu, Rhodes, Star grass, Nandi Seteria• Fodder crops - Maize, Lucerne, Napier, Disodium, Vetch, multi-purpose trees
2. Farm tools includes but not limited to:	<ul style="list-style-type: none">• Hoe• Fork• Slasher• Sickle• Rake
3. Farm machinery includes but not limited to:	<ul style="list-style-type: none">• Tractor• Lorry• Pickup
4. Farm implements includes but not limited to:	<ul style="list-style-type: none">• Trailer• Plough• Harrow• Tiller• Planter• Sprayer• Mower• Tedder• Rake• Baler• Forage harvester
5. Safe Planting materials includes but not limited to	Certified, clean and disease free <ul style="list-style-type: none">• Seeds• Seedlings• Cuttings• Splits• Tubers for propagation
6. Environment protection regulations includes but not limited to:	<ul style="list-style-type: none">• Public Health Act• EMCA 1999• OSH Act 2007

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required skills

The individual needs to demonstrate the following skills:

- Measuring skills
- Agronomic skills
- Communication skills

Required knowledge

The individual needs to demonstrate knowledge of:

- Types of planting materials
- Primary and secondary cultivation methods
- Soil erosion control methods
- Practices of forage establishment and management
 - Methods of planting
 - Weeds, pests and diseases control methods
 - Irrigation methods
- Fertilizer application methods
- Codes of hygienic practice (s)
- Forage harvesting and conservation methods
- Occupational safety and health procedures

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

<p>1. Critical Aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Applied food safety measures to produce dairy forage</p> <p>1.2 Prepared planting land to a level suitable to the planting material</p> <p>1.3 Managed and harvested forage according to guidelines in the livestock production manual and the code of practice for the animal feed industry</p> <p>1.4 Conserved and stored fodder using correct method and procedures and the code of practice for the animal feed industry</p> <p>1.5 Adhered to occupational safety and health procedures as per OS&H regulations and farm procedures</p>
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	<p>1.6 Observed laid down environmental protection measures at the work place</p> <p>1.7 Documented dairy forage production and food safety records</p>
2. Resource Implications	<p>The following resources must be provided:</p> <p>2.1 Assessment location / workplace</p> <p>2.2 Personal Protective Equipment and Apparel</p>
3. Methods of Assessment	<p>Competency may be assessed through:</p> <p>3.1 Observation</p> <p>3.2 Oral questioning</p> <p>3.3 Written test</p> <p>3.4 Portfolio of Evidence</p> <p>3.5 Interview</p> <p>3.6 Third party report</p>
4. Context of Assessment	<p>Competency may be assessed on the job, off the job or a combination of these. Off the job assessment must be undertaken in a closely simulated workplace environment.</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.</p>