

PRODUCE DAIRY FORAGE

ISCED UNIT CODE: 0811 241 01A

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UNIT DESCRIPTION

This unit specifies the competencies required to produce dairy forage. It involves applying food safety measures to produce dairy forage, preparing to produce dairy forage, producing dairy forage, evaluating dairy forage production and completing dairy forage production.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	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 PPEs used in forage production are identified 1.2 <i>Forage</i> planting land is prepared using correct <i>farm tools, implements and machinery</i> in accordance with the planting material 1.3 <i>Safe planting materials</i> are prepared according to Good Agricultural Practices (GAP) and work place policy. 1.4 Soil erosion is controlled based on topography, soil type and level of degradation. 1.5 Occupational safety and health procedures are adhered to according to work place procedures
2. Produce dairy forage	2.1 Forage planting materials are planted as per GAP and livestock production manual 2.2 Planted materials are gapped as per spacing requirements 2.3 Planted forage is fertilized and irrigated as per soil conditions and based on Livestock Production Manual, fertilizer standards, Fertilizer And Animal Foodstuffs Act (CAP 345) and guidelines for treated waste water used for irrigation. 2.4 Forage irrigation is carried out as per work requirement
3. Evaluate dairy forage production	3.1 Quality and safety of forage is checked based on Livestock Production Manual 3.2 Quantity of forage produced is checked based on livestock production manual and farm production projections 3.3 Errors are detected, reported and rectified based on workplace policy

4. Complete dairy forage production	<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 Waste is disposed with due regard to environment protection regulations</p>
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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 may include but not limited to:	<ul style="list-style-type: none"> • Pastures – Kikuyu grass, Rhodes, Star grass, Nandi Setaria, • Fodder crops – Maize, Lucerne, Napier, Desmodium, Vetch, multi-purpose trees
2. Farm tools may include but not limited to:	<ul style="list-style-type: none"> • Hoe • Fork • Slasher • Sickle • Rake
3. Farm implements may include but not limited to:	<ul style="list-style-type: none"> • Trailer • Plough Mower • Tedder • Rake • Baler • Forage harvester • Harrow • Tiller • Planter • Sprayer
4. Farm machinery may include but not limited to:	<ul style="list-style-type: none"> • Tractor • Lorry • Pickup
5. Safe planting materials may include but not limited to	<p>Certified, clean, disease free</p> <ul style="list-style-type: none"> • Seeds • Seedlings • Cuttings

	<ul style="list-style-type: none"> • Splits and • Tubers for propagation
6. Environment protection regulations may include 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
- Trouble shooting
- Agronomic skills
- Communication skills

Required knowledge

The individual needs to demonstrate knowledge of:

- Types of planting materials
- Primary and secondary cultivation
- Soil erosion control methods
- Soil sampling procedures
- Practices of forage establishment and management
 - Methods of planting
 - Weeds, pests and diseases control methods
 - Irrigation methods
- Fertilizer application
- Hazard Analysis Critical Control Point (HACCP) process
- Code 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.

1. Critical Aspects of Competency	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Applied food safety measures to produce dairy forage 1.2 Prepared planting land to a level suitable to the planting material 1.3 Managed and harvested forage according to guidelines in the livestock production manual and the code of practice for the animal feed industry 1.4 Conserved and stored fodder using correct method and procedures and the code of practice for the animal feed industry 1.5 Adhered to occupational safety and health procedures as per OS&H regulations and farm procedures 1.6 Observed laid down environmental protection measures at the workplace 1.7 Documented dairy forage production and food safety records
2. Resource Implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Access to relevant workplace 2.2 Appropriately simulated environment where assessment can take place 2.3 Materials relevant to the proposed activity or tasks
3. Methods of Assessment	<p>Competency may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Observation 3.2 Oral questioning 3.3 Third party report 3.4 Written test 3.5 Portfolio of Evidence 3.6 Interview
4. Context of Assessment	<p>Competency may be assessed</p> <ul style="list-style-type: none"> On-the-job Off-the –job During Industrial attachment.
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.</p>