

APPLY KNOWLEDGE OF FARM STRUCTURES AND MECHANIZATION

UNIT CODE: 0811 541 10A/0716 541 10A

TVET CDACC UNIT CODE: HE/OS/AHP/CC/15/6/MA

UNIT DESCRIPTION:

This unit specifies the competencies required by an animal health technologist in order to apply knowledge of farm structures and mechanization. It involves applying knowledge of farm structures, farm power, knowledge of farm mechanization.

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. Apply knowledge of farm structures	1.1 Farm planning is conducted as per work requirement 1.2 <i>Construction materials</i> are assembled as per work requirement 1.3 Livestock <i>Housing structures</i> are managed as per work requirement 1.4 Livestock restraining structures are maintained as per work requirement 1.5 Dips and spray races are managed as per work requirement
2. Apply knowledge on farm power	2.1 <i>Farm power</i> knowledge is applied as per work requirement 2.2 Farm power is selected as work requirement 2.3 Tractor/animal power operations is managed as per work requirement
3. Apply knowledge of farm mechanization	3.1 Farm mechanization knowledge is applied as per work requirement 3.2 Challenges of farm mechanization are managed as per work requirement 3.4 Farm <i>machinery and equipment</i> are assembled as per

	work requirement
--	------------------

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. Construction material include but not limited to	● Timber ● Stone ● Metal ● Iron sheets ● Sand ● Ballast ● Cement ● Nails
2. Livestock housing structures include but not limited to	● Zero grazing unit ● Piggery ● Rabbitry ● Poultry unit
3. Types of farm power include but not limited to	● animal power ● solar power ● tractor power ● human power
4. Farm machinery and equipment	● Silage chopper ● Chaff cutter ● Hay Bailing machine ● Knapsack sprayer

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

- Communication skills
- Animal handling skills

Required knowledge

The individual needs to demonstrate knowledge of:

- Ecology and environmental sciences
- Soil science
- Companion and draught animal production

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	Assessment requires evidence that the candidate: 1.1 Conducted farm planning as per work requirement 1.2 Assembled construction materials as per work requirement 1.3 Managed livestock housing structures as per work requirement 1.4 Maintained livestock restraining structures as per work requirement 1.6 Managed dips and spray races as per work requirement 1.7 Applied farm power knowledge as per work requirement 1.8 Farm power is selected as work requirement 1.9 Managed tractor/animal power operations as per work requirement 1.10 Farm mechanization knowledge is applied as per work requirement 1.11 Managed challenges of farm mechanization as per work requirement 1.12 Assembled farm machinery and equipment as per work requirement
2. Resource Implications	The following resources must be provided: 2.1 Appropriately simulated environment where assessment can take place 2.2 Access to relevant work environment 2.3 Resources relevant to the proposed activities or tasks
3. Methods of Assessment	Competency may be assessed through: 3.1. Observation

	3.2. Oral questioning 3.3. Written test 3.4. Portfolio of Evidence 3.5. Interview 3.6. Third party report
4. Context of Assessment	Competency may be assessed in a: Workplace or simulated workplace
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.