

METABOLIC, NUTRITIONAL AND REPRODUCTIVE DISEASES AND DISORDERS

UNIT CODE: 0841 451 31A

TVET CDACC UNIT CODE: HE/CU/AHP/CR/05/5/MA

Relationship to Occupational Standards

This unit addresses the unit of competency: Manage metabolic, nutritional and reproduction diseases and disorders.

Duration of Unit: 50 hours

Unit Description

This unit specifies the competencies required by an animal health and production technician to manage metabolic, nutritional and reproductive diseases and disorders. It involves managing metabolic disease, manage nutritional disorders and manage reproductive disease disorders.

Summary of Learning Outcomes

By the end of this unit, the learner should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Manage Metabolic Diseases	20
2.	Manage nutritional disorders	15
3.	Manage reproductive diseases and disorders	15
Total		50

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Manage metabolic diseases	1.1. Introduction to metabolic diseases 1.1.1. Ketosis 1.1.2. Milk fever 1.1.3. Fat cow syndrome 1.1.4. Hypomagnesaemia 1.1.5. Hardware disease (TRP) 1.2. Manage metabolic diseases 1.2.1. Diagnosis 1.2.2. Treatment 1.2.3. Prevention and control 1.3. Tools and equipment 1.3.1. Thermometer 1.3.2. Stethoscope 1.3.3. Microscope 1.3.4. Syringes & Needles 1.3.5. Drenching gun 1.3.6. Scalpel blades 1.3.7. Surgical spirit 1.4. PPEs ● Gloves ● Overall ● Dustcoats ● Gum boots ● Face masks	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
2. Manage nutritional disorders	2.1. Introduction to nutritional disorders 2.1.1. Vitamin E/Selenium deficiency 2.1.2. Grain overload 2.1.3. Bloat	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence

	2.2. Manage nutritional disorders 2.2.1. Diagnosis 2.2.2. Treatment 2.2.3. Prevention and control 2.3 Tools and equipment ● Thermometer ● Stethoscope ● Microscope ● Syringes & Needles ● Drenching gun ● Scalpel blades ● Surgical spirit 2.4 PPEs ● Gloves ● Overall ● Dustcoats ● Gum boots ● Face mask	● Oral questions
3. Manage reproductive diseases and disorders	3.1. Introduction to reproductive diseases and disorders 3.1.1. Trichomoniasis 3.1.2. Brucellosis 3.1.3. Leptospirosis 3.2. Manage reproductive diseases and disorders 3.2.1. Diagnosis 3.2.2. Treatment 3.2.3. Prevention and control 3.3 Tools and equipment ● Thermometer ● Stethoscope ● Microscope ● Syringes & Needles	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

	● Drenching gun ● Scalpel blades ● Surgical spirit	
	3.4 PPEs ● Gloves ● Overall ● Dustcoats ● Gum boots ● Face masks	

Suggested Methods of Delivery

- Demonstration
- Practical
- Field training
- Projects
- Group discussions
- Direct instruction

Recommended Resources for 25 trainees

S/No.	Category/Item	Description/Specification	Quantity	Recommended Ratio (Item: Trainee)
A	Learning materials			
1.	Projector	EPSOM	1	1:25
2.	Whiteboard/Smartboard	2.5 By 1.5.M	1	1:25
3.	Desktop/computer		1	1:25
B	Learning Facilities & Infrastructure			
4.	Lecture/Theory room	With at least 25 seats	1	1:25
5.	Library	Equipped with metabolic, nutritional and reproduction diseases and disorders books and E-	1	1:25

		section		
6.	Microbiology laboratory		1	1:25
7.	Holding crush		1	1:25
C	Consumable Materials			
8.	Syringes & Needles		Enough	-
9.	Drenching gun		Enough	-
10.	Scalpel blades		Enough	-
11.	Surgical spirit		Enough	-
D	Tools and Equipment			
12.	Thermometer		25	1:1
13.	Stethoscope		25	1:1
14.	Microscope		5	1:5