

METABOLIC, NUTRITIONAL AND REPRODUCTIVE DISEASES AND DISORDERS

ISCED UNIT CODE: 0841 551 36A

TVET CDACC UNIT CODE: HE/CU/AHP/CR/04/6/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage metabolic, nutritional and reproductive diseases and disorders.

Unit Duration: 80 hours

Unit Description

This unit specifies the competencies required by an animal health and production technologist to manage metabolic, nutritional and reproductive diseases and disorders. It involves identifying, diagnosing, controlling and treating metabolic, nutritional and reproductive diseases.

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	30
2.	Manage nutritional disorders	30
3.	Manage reproductive diseases and disorders	20
Total		80

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of assessment
1. Manage metabolic diseases	1.1. Introduction to metabolic diseases. 1.2. PPEs for metabolic disease management. 1.2.1. Glove	• Practical • Project • Portfolio of evidence • Third party report

	1.2.2. Overall 1.2.3. Dust coat 1.2.4. Gum boots 1.2.5. Face masks 1.3. Tools, equipment and materials 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 1.4. Manage metabolic diseases 1.4.1. Epidermiology 1.4.2. Aetiology 1.4.3. Clinical signs 1.4.4. Diagnosis 1.4.5. Treatment 1.4.6. Prevention and control 1.4.7. Economic impact 1.5. Animals to manage metabolic diseases 1.5.1. Cattle 1.5.2. Sheep 1.5.3. Goats 1.5.4. Poultry 1.5.5. Pigs 1.6. Metabolic disease 1.6.1. Milk fever 1.6.2. Ketosis 1.6.3. Grass tetany 1.6.4. Grain overload 1.6.5. Bloat	• Written assessment • Oral questioning
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	1.6.6. Hardware diseases (TRP) 1.7.Treatment and management of metabolic diseases 1.7.1. Laxatives 1.7.2. Purgatives	
2. Manage nutritional disorders	2.1.Introduction to nutritional disorders. 2.2.Nutritional disorders 2.3.Nutritional diseases 2.3.1. Vitamin E/ Selenium deficiency 2.3.2. Obesity 2.3.3. Polio encephalomalacia 2.3.4. Diagnosis of nutritional disorders 2.3.5. Causes 2.3.6. Clinical signs 2.3.7. Diagnosis 2.3.8. Treatment 2.3.9. Prevention 2.3.10. Control 2.3.11. Economic impact	• Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning
3.Manage reproductive diseases and disorders	3.1.Reproductive diseases and disorders 3.2.Diagnosis of reproductive diseases. 3.2.1. Causes 3.2.2. Diagnosis 3.2.3. Treatment 3.2.4. Prevention 3.2.5. Control 3.2.6. Economic impact 3.3.Reproductive diseases 3.3.1. Trichomoniasis 3.3.2. Brucellosis	• Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning

	3.3.3. Leptospirosis 3.3.4. Hard ware diseases (TRP) 3.4. Management and treatment of reproductive diseases 3.4.1. Antibiotics 3.4.2. Anti-inflammatory	
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Suggested Methods of delivery

- Practical
- Projects
- Demonstrations
- Group discussion
- Direct instructions

Recommended Resources for 25 trainees

S/No.	Category/Item	Description/Specification	Quantity	Recommended Ratio (Item: Trainee)
1.	Learning materials			
2.	Projector		1	1:25
3.	Whiteboard/Smart board		1	1:25
4.	Desktop/computer		1	1:25
5.	Lecture/Theory room		1	1:25
6.	Animal farm	As guided by KVB	1	1:25
7.	Library		1	1:25
8.	E-Library		1	1:25
9.	Drenching gun		5	1:5
10.	Syringes and needle		25	1:1
11.	Scalpel blades		25	1:1
12.	Microscope		5	1:5

13.	Crush		1	1:25
14.	Thermometer		25	1:1
15.	Stethoscope		25	1:1