

PARASITIC DISEASES

ISCED UNIT CODE: 0841 551 34A

TVET CDACC UNIT CODE: HE/CU/AHP/CR/01/6/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage parasitic diseases.

Unit Duration: 80 hours

Unit Description

This unit specifies the competencies required by an animal health and production technologist to manage parasitic diseases. It involves managing protozoal diseases, rickettsial diseases and mange.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Manage protozoal diseases	20
2.	Manage rickettsial diseases	20
3.	Manage helminthosis	20
4.	Manage livestock mange	20
Total		80

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of assessment
1. Manage protozoal diseases	1.1.Introduction to protozoal diseases. 1.2.Tools and equipment for managing protozoal diseases. 1.2.1. Thermometer 1.2.2. Stethoscope 1.2.3. Microscope	• Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning

	1.2.4. Syringes and needles 1.2.5. Drenching gun 1.2.6. Scalpel blades	
	1.3.PPEs on protozoal diseases management 1.3.1. Gloves 1.3.2. Overall 1.3.3. Dust Coats 1.3.4. Gumboots 1.3.5. Face masks 1.4.Protozoal diseases include: 1.4.1. Trypanosomiasis 1.4.2. Babesiosis 1.4.3. Anaplasmosis. 1.5.Protozoal diseases diagnosis 1.5.1. Epidemiology 1.5.2. A etiology 1.5.3. Pathogenesis 1.5.4. Diagnosis 1.5.5. Treatment 1.6.Anti-protozoal drugs 1.7.Prevention and control 1.7.1. Acaricides 1.7.2. Spraying 1.7.3. Dipping 1.7.4. Dusting 1.7.5. Pour on 1.6. Economic importance	

2.Manage Rickettsial diseases	2.1.Rickettsial diseases 2.1.1. Ehrlichiosis 2.1.2. Q fever 2.1.3. Epidemiology 2.1.4. Aetiology 2.1.5. Pathogenesis 2.1.6. Diagnosis 2.1.7. Treatment 2.1.7.1. Antibiotics 2.1.7.2. Antiinflammatory. 2.2.Prevention and control 2.3.Economic importance	• Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning
3.Manage livestock helminthosis	3.1.Helminthosis 3.2.Causative agent of helminthosis 3.2.1. Haemonchosis 3.2.2. Osterargiasis 3.2.3. Fascioliasis 3.2.4. Trychostronglosis 3.2.5. Ascariasis 3.2.6. Pathogenesis of helminthosis 3.3. Management of helminthosis ✓ Antihelminth drenching 3.4.Economic importance of helminthosis	• Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning
4.Manage livestock mange	4.1.Define mange 4.2.Species of animals affected by mange 4.3.Pathogenesis of mange 4.4.Management of mange 4.4.1. Ivermectin	• Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning

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/Smartboard		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.	Knapsack		5	1:5
10.	Drenching gun		5	1:5
11.	Syringes and needle		25	1:1
12.	Scalpel blades		25	1:1
13.	Microscope		5	1:5
14.	Acaricides		5	1:5
15.	Crush		1	1:25
16.	Thermometer		25	1:1
17.	Stethoscope		25	1:1