

PARASITIC DISEASES

UNIT CODE: 0841 451 29A

TVET CDACC UNIT CODE: HE/CU/AHP/CR/02/5/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage parasitic diseases

Unit Duration: 60 hours

Unit Description

This unit specifies the competencies required by an animal health and production technician 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	15
2.	Manage rickettsial diseases	15
3.	Manage helminthosis	15
4.	Manage livestock mange	15
Total		60

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of assessment
1. Manage protozoal diseases	1.1. Introduction to parasitic disease 1.1.1. Haemonchosis 1.1.2. Ostertagiasis 1.1.3. Fascioliasis 1.1.4. Trychostrongylosis 1.1.5. East Coast Fever 1.1.6. Trypanosomiasis 1.1.7. Babesiosis	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

	1.1.8. Anaplasmosis 1.1.9. Ascariasis 1.2. Tools and equipment 1.2.1. Thermometer 1.2.2. Stethoscope 1.2.3. Microscope 1.2.4. Syringes and needles 1.2.5. Drenching gun 1.2.6. Scalpel blades 1.2.7. Surgical spirits 1.2.8. Swabs 1.3. PPEs 1.3.1. Gloves 1.3.2. Overall 1.3.3. Dust Coats 1.3.4. Gumboots 1.3.5. Face masks 1.4. Diagnosis of protozoan diseases 1.5. Treatment of protozoal diseases 1.5.1. Antiprotozoals 1.5.2. Antiinflammatories 1.6. Prevention and control of protozoal diseases 1.7. Control measures 1.7.1. Spraying 1.7.2. Dipping 1.7.3. Dusting 1.7.4. Pour on	
2. Manage rickettsial diseases	2.1. Tools and equipment 2.1.1. Thermometer 2.1.2. Stethoscope 2.1.3. Microscope 2.1.4. Syringes and needles	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence

	2.1.5. Drenching gun 2.1.6. Scalpel blades 2.1.7. Surgical spirits 2.1.8. Swabs 2.2. PPEs 2.2.1. Gloves 2.2.2. Overall 2.2.3. Dust Coats 2.2.4. Gumboots 2.2.5. Face masks 2.3. Rickettsial diseases 2.3.1. Ehrlichiosis 2.3.2. Q fever 2.4. Diagnosis of rickettsial diseases 2.5. Treatment of rickettsial diseases 2.5.1. Antibiotics 2.6. Prevention and control of rickettsial diseases 2.7. Control measures 2.7.1. Spraying 2.7.2. Dipping 2.7.3. Dusting 2.7.4. Pour on	● Oral questions
3. Manage helminthosis	3.1. Tools and equipment 3.1.1. Thermometer 3.1.2. Stethoscope 3.1.3. Microscope 3.1.4. Syringes and needles 3.1.5. Drenching gun 3.1.6. Scalpel blades 3.1.7. Surgical spirits 3.1.8. Swabs 3.2. PPEs	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

	3.2.1. Gloves 3.2.2. Overall 3.2.3. Dust Coats 3.2.4. Gumboots 3.2.5. Face masks 3.3. Diagnosis of helminthiasis 3.4. Treatment of helminthiasis 3.4.1. Anthelmintics 3.5. Prevention and control of helminthiasis 3.6. Control measures 3.6.1. Drenching	
4. Manage livestock mange	4.1. Tools and equipment 4.1.1. Thermometer 4.1.2. Stethoscope 4.1.3. Microscope 4.1.4. Syringes and needles 4.1.5. Drenching gun 4.1.6. Scalpel blades 4.1.7. Surgical spirits 4.1.8. Swabs 4.2. PPEs 4.2.1. Gloves 4.2.2. Overall 4.2.3. Dust Coats 4.2.4. Gumboots 4.2.5. Face masks 4.3. Diagnosis of mange 4.4. Treatment of mange 4.4.1. Acaricides 4.4.2. Copper sulphate 4.5. Prevention and control of mange 4.6. Control measures	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

	4.6.1. Spraying 4.6.2. Dipping 4.6.3. Dusting 4.6.4. Pour on	
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Suggested Methods of Delivery

- Demonstration
- Practical
- projects
- Field training
- 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 parasitic diseases books and E-section	1	1:25
6.	Microbiology laboratory		1	1:25
C	Consumable Materials			
7.	Syringes & Needles		Enough	-
8.	Scalpel blades		Enough	-
9.	Surgical spirit		Enough	-
10.	Swabs		Enough	-
11.	Dewormer		Enough	-
D	Tools and Equipment			
12.	Thermometer		25	1:1
13.	Stethoscope		25	1:1

14.	Microscope		5	1:5
15.	Drenching gun		25	1:1
16.	Knapsack sprayer		5	1:5