

## 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:

<b>S/No</b>	<b>Learning Outcomes</b>	<b>Duration (Hours)</b>
1.	Manage protozoal diseases	15
2.	Manage rickettsial diseases	15
3.	Manage helminthosis	15
4.	Manage livestock mange	15
<b>Total</b>		<b>60</b>

### **Learning Outcomes, Content and Suggested Assessment Methods**

<b>Learning Outcome</b>	<b>Content</b>	<b>Methods of assessment</b>
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	<ul style="list-style-type: none"><li>● Practical</li><li>● Project</li><li>● Written tests</li><li>● Third party report</li><li>● Portfolio of evidence</li><li>● Oral questions</li></ul>

	<p>1.1.8. Anaplasmosis</p> <p>1.1.9. Ascariasis</p> <p>1.2. Tools and equipment</p> <p>1.2.1. Thermometer</p> <p>1.2.2. Stethoscope</p> <p>1.2.3. Microscope</p> <p>1.2.4. Syringes and needles</p> <p>1.2.5. Drenching gun</p> <p>1.2.6. Scalpel blades</p> <p>1.2.7. Surgical spirits</p> <p>1.2.8. Swabs</p> <p>1.3. PPEs</p> <p>1.3.1. Gloves</p> <p>1.3.2. Overall</p> <p>1.3.3. Dust Coats</p> <p>1.3.4. Gumboots</p> <p>1.3.5. Face masks</p> <p>1.4. Diagnosis of protozoan diseases</p> <p>1.5. Treatment of protozoal diseases</p> <p>1.5.1. Antiprotozoals</p> <p>1.5.2. Antiinflammatories</p> <p>1.6. Prevention and control of protozoal diseases</p> <p>1.7. Control measures</p> <p>1.7.1. Spraying</p> <p>1.7.2. Dipping</p> <p>1.7.3. Dusting</p> <p>1.7.4. Pour on</p>	
<p>2. Manage rickettsial diseases</p>	<p>2.1. Tools and equipment</p> <p>2.1.1. Thermometer</p> <p>2.1.2. Stethoscope</p> <p>2.1.3. Microscope</p> <p>2.1.4. Syringes and needles</p>	<ul style="list-style-type: none"> <li>● Practical</li> <li>● Project</li> <li>● Written tests</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> </ul>

	<ul style="list-style-type: none"> <li>2.1.5. Drenching gun</li> <li>2.1.6. Scalpel blades</li> <li>2.1.7. Surgical spirits</li> <li>2.1.8. Swabs</li> <li>2.2. PPEs <ul style="list-style-type: none"> <li>2.2.1. Gloves</li> <li>2.2.2. Overall</li> <li>2.2.3. Dust Coats</li> <li>2.2.4. Gumboots</li> <li>2.2.5. Face masks</li> </ul> </li> <li>2.3. Rickettsial diseases <ul style="list-style-type: none"> <li>2.3.1. Ehrlichiosis</li> <li>2.3.2. Q fever</li> </ul> </li> <li>2.4. Diagnosis of rickettsial diseases</li> <li>2.5. Treatment of rickettsial diseases <ul style="list-style-type: none"> <li>2.5.1. Antibiotics</li> </ul> </li> <li>2.6. Prevention and control of rickettsial diseases</li> <li>2.7. Control measures <ul style="list-style-type: none"> <li>2.7.1. Spraying</li> <li>2.7.2. Dipping</li> <li>2.7.3. Dusting</li> <li>2.7.4. Pour on</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>● Oral questions</li> </ul>
<p>3. Manage helminthosis</p>	<ul style="list-style-type: none"> <li>3.1. Tools and equipment <ul style="list-style-type: none"> <li>3.1.1. Thermometer</li> <li>3.1.2. Stethoscope</li> <li>3.1.3. Microscope</li> <li>3.1.4. Syringes and needles</li> <li>3.1.5. Drenching gun</li> <li>3.1.6. Scalpel blades</li> <li>3.1.7. Surgical spirits</li> <li>3.1.8. Swabs</li> </ul> </li> <li>3.2. PPEs</li> </ul>	<ul style="list-style-type: none"> <li>● Practical</li> <li>● Project</li> <li>● Written tests</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>

	<p>3.2.1. Gloves</p> <p>3.2.2. Overall</p> <p>3.2.3. Dust Coats</p> <p>3.2.4. Gumboots</p> <p>3.2.5. Face masks</p> <p>3.3. Diagnosis of helminthiasis</p> <p>3.4. Treatment of helminthiasis</p> <p>3.4.1. Anthelmintics</p> <p>3.5. Prevention and control of helminthiasis</p> <p>3.6. Control measures</p> <p>3.6.1. Drenching</p>	
<p>4. Manage livestock mange</p>	<p>4.1. Tools and equipment</p> <p>4.1.1. Thermometer</p> <p>4.1.2. Stethoscope</p> <p>4.1.3. Microscope</p> <p>4.1.4. Syringes and needles</p> <p>4.1.5. Drenching gun</p> <p>4.1.6. Scalpel blades</p> <p>4.1.7. Surgical spirits</p> <p>4.1.8. Swabs</p> <p>4.2. PPEs</p> <p>4.2.1. Gloves</p> <p>4.2.2. Overall</p> <p>4.2.3. Dust Coats</p> <p>4.2.4. Gumboots</p> <p>4.2.5. Face masks</p> <p>4.3. Diagnosis of mange</p> <p>4.4. Treatment of mange</p> <p>4.4.1. Acaricides</p> <p>4.4.2. Copper sulphate</p> <p>4.5. Prevention and control of mange</p> <p>4.6. Control measures</p>	<ul style="list-style-type: none"> <li>● Practical</li> <li>● Project</li> <li>● Written tests</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>

	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)
<b>A</b>	<b>Learning materials</b>			
1.	Projector	EPSON	1	1:25
2.	Whiteboard/Smartboard	2.5 By 1.5.M	1	1:25
3.	Desktop/computer		1	1:25
<b>B</b>	<b>Learning Facilities &amp; Infrastructure</b>			
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
<b>C</b>	<b>Consumable Materials</b>			
7.	Syringes & Needles		Enough	-
8.	Scalpel blades		Enough	-
9.	Surgical spirit		Enough	-
10.	Swabs		Enough	-
11.	Dewormer		Enough	-
<b>D</b>	<b>Tools and Equipment</b>			
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