

## MANAGE PARASITIC DISEASES

**UNIT CODE: 0841 451 29A**

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

### **UNIT DESCRIPTION:**

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

### **ELEMENTS AND PERFORMANCE CRITERIA**

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b>
These describe the key outcomes, which make up workplace function.	These are assessable statements, which specify the required level of performance for each of the elements. <i><b>Bold and italicized terms are elaborated in the range.</b></i>
1. Manage protozoal diseases	1.1 <i><b>Tools and equipment</b></i> are identified and assembled as per work requirement 1.2 <i><b>PPEs</b></i> are donned as per work requirement. 1.3 <i><b>Protozoal disease</b></i> is diagnosed as per work procedure 1.4 Protozoal disease is treated as per VMD guidelines. 1.5 Protozoal disease is prevented and controlled as per work procedure
2. Manage rickettsial diseases	2.1 <i><b>Tools and equipment</b></i> are identified and assembled as per work requirement. 2.2 <i><b>PPEs</b></i> are donned as per work requirement. 2.3 <i><b>Rickettsial disease</b></i> is diagnosed as per work procedure 2.4 Rickettsial disease is treated as per VMD guidelines 2.5 Rickettsial disease is prevented and controlled as per work procedure
3. Manage livestock helminthosis	3.1 <i><b>Tools and equipment</b></i> are identified and assembled as per work requirement 3.2 <i><b>PPEs</b></i> are donned as per work requirement. 3.3 <i><b>Helminthosis</b></i> is diagnosed as per work procedure 3.4 Helminthosis is treated as per VMD guidelines 3.5 Helminthosis is prevented and controlled as per work procedure

4. Manage livestock mange	<p>4.1 <b>Tools and equipment</b> are identified and assembled as per work requirement</p> <p>4.2 <b>PPEs</b> are donned as per work requirement.</p> <p>4.3 Mange is diagnosed as per work procedure</p> <p>4.4 Mange is treated as per VMD guidelines</p> <p>4.5Mange is prevented and controlled as per work requirement.</p>
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## RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. Parasitic diseases include but not limited to	<ul style="list-style-type: none"> <li>• Haemonchosis</li> <li>• Ostertagiasis</li> <li>• Fascioliasis</li> <li>• Trychostrongylosis</li> <li>• East Coast Fever</li> <li>• Trypanosomiasis</li> <li>• Babesiosis</li> <li>• Anaplasmosis</li> <li>• Ascariasis</li> </ul>
2. Drugs/chemicals include but not limited to	<ul style="list-style-type: none"> <li>• Acaricides</li> <li>• Anthelmintics</li> <li>• Antiprotozoals</li> <li>• Antibiotics</li> <li>• Antiinflammatories</li> <li>• Copper Sulphate</li> </ul>
3. Control measures include but not limited to	<ul style="list-style-type: none"> <li>• Spraying</li> <li>• Dipping</li> <li>• Drenching</li> <li>• Dusting</li> <li>• Pour on</li> </ul>

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4. Personal Protection Equipment and Apparel include but not limited to	<ul style="list-style-type: none"> <li>• Gloves</li> <li>• Overall</li> <li>• Dustcoats</li> <li>• Gum boots</li> <li>• Face masks</li> </ul>
5. Tools, equipment, materials, and supplies	<ul style="list-style-type: none"> <li>• Thermometer</li> <li>• Stethoscope</li> <li>• Microscope</li> <li>• Syringes &amp; Needles</li> <li>• Drenching gun</li> <li>• Scalpel blades</li> </ul>

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	<ul style="list-style-type: none"> <li>• Surgical spirit</li> <li>• Swabs</li> </ul>

## REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

### Required skills

The individual needs to demonstrate the following skills

- Surgical skills
- Animal handling skills
- Communication skills
- Interpersonal skills

## Required knowledge

The individual needs to demonstrate knowledge of:

- Parasitology
- Pharmacology
- Anatomy and physiology
- Animal welfare and ethics
- Veterinary surgeon and paraprofessionals Act

## EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: <b><i>Is and equipment</i></b> are identified and assembled as per work requirement 1.1 Donned PPEs as per work requirement. 1.2 Diagnosed protozoal disease as per work procedure 1.3 Treated protozoal disease as per VMD guidelines. 1.4 Prevented and controlled protozoal disease as per work procedure 1.5 Diagnosed rickettsial disease as per work procedure 1.6 Treated Rickettsial disease as per VMD guidelines 1.7 Prevented and controlled rickettsial disease as per work procedure 1.8 Diagnosed helminthosis as per work procedure 1.9 Treated helminthosis as per VMD guidelines 1.10 Prevented and controlled helminthosis as per work procedure 1.11 Diagnosed mange as per work procedure 1.12 Treated mange as per VMD guidelines 1.13 Prevented and controlled mange as per work requirement.
2. Resource Implications	The following resources must be provided:

	<p>2.1 Appropriately simulated environment where assessment can take place</p> <p>2.2 Access to relevant work environment</p> <p>2.3 Resources relevant to the proposed activities or tasks</p>
3. Methods of Assessment	<p>Competency may be assessed through:</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. Context of Assessment	<p>Competency may be assessed in a: Workplace or simulated workplace.</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.</p>