

## MANAGE METABOLIC, NUTRITIONAL AND REPRODUCTIVE DISEASES AND DISORDERS

**UNIT CODE: 0841 451 31A**

**TVET CDACC UNIT CODE: HE/OS/AHP/CR/05/5/MA**

### UNIT DESCRIPTION:

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

### ELEMENTS AND PERFORMANCE CRITERIA

<b>ELEMENT</b> These describe the key outcomes, which make up workplace function.	<b>PERFORMANCE CRITERIA</b> 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 metabolic 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>Metabolic disease</b></i> is diagnosed as per work procedure 1.4 Metabolic disease is managed as per VMD guidelines 1.5 Metabolic diseases is prevented and controlled metabolic as per work requirement.
2. Manage nutritional disorders	2.1 Tools and equipment are identified and assembled per work requirement 2.2 PPEs are donned as per work requirement. 2.3 <i><b>Nutritional disease</b></i> is diagnosed as per work procedure 2.4 Nutritional disease is managed as per VMD guidelines 2.5 Nutritional disease prevented and controlled as per work requirement
3. Manage reproductive diseases and disorders	3.1 Tools and equipment are assembled as per work requirement 3.2 PPEs are donned as per work requirement. 3.3 <i><b>Reproductive disease</b></i> is diagnosed as per work procedure 3.4 Reproductive diseases is managed as per VMD guidelines

	3.5 Reproductive disease is prevented and controlled as per work requirement
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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.

<b>Variable</b>	<b>Range</b>
1. Metabolic, nutritional and reproductive diseases and disorders include but not limited to	<ul style="list-style-type: none"> <li>• Milk fever</li> <li>• Ketosis</li> <li>• Grass tetany</li> <li>• Grain overload</li> <li>• Bloat</li> <li>• Vitamin E/ Selenium deficiency</li> <li>• Trichomoniasis</li> <li>• Brucellosis</li> <li>• Leptospirosis</li> <li>• Hardware diseases (TRP)</li> </ul>
2. 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> <li>• Surgical spirit</li> </ul>
3. 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>

4. Drugs/ chemical	<ul style="list-style-type: none"> <li>• Laxatives</li> <li>• Purgatives</li> <li>• Antibiotics</li> <li>• Anti-inflammatories</li> </ul>
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## 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

### Required knowledge

The individual needs to demonstrate knowledge of:

- Pharmacology
- Anatomy and physiology
- Animal Welfare Ethics and Law
- Veterinary Surgeons and Paraprofessionals Act
- Veterinary Medicines Directorate

## 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	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Identified and assembled Tools and equipment as per work procedure</li> <li>1.2 Donned PPEs as per work requirement.</li> <li>1.3 Diagnosed metabolic diseases as per work procedure</li> <li>1.4 Managed metabolic diseases as per VMD guidelines</li> <li>1.5 Prevented and controlled metabolic disease as per work</li> </ul>
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	<p>requirement.</p> <p>1.6 Diagnosed nutritional diseases as per work procedure</p> <p>1.7 Managed nutritional diseases as per VMD guidelines</p> <p>1.8 Prevented and controlled nutritional disease as per work requirement</p> <p>1.9 Diagnosed reproductive disease as per work procedure</p> <p>1.10 Managed reproductive disease as per VMD guidelines</p> <p>1.11 Prevented and controlled Reproductive disease as per work requirement</p>
2. Resource Implications	<p>The following resources must be provided:</p> <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:</p> <p>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>