

MANAGE MICROBIAL DISEASES

UNIT CODE: 0841 551 35A

TVET CDACC UNIT CODE: HE/OS/AHP/CR/02/6/MA

UNIT DESCRIPTION:

This unit specifies the competencies required by an animal health technologist to manage Microbial diseases. It involves managing bacterial, viral and fungal livestock diseases.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
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>Bold and italicized terms are elaborated in the range.</i>
1. Manage bacterial diseases	1.1 <i>Tools and equipment</i> are identified and assembled as per work procedure 1.2 <i>PPEs</i> are donned as per work requirement. 1.3 <i>Bacterial disease</i> is diagnosed as per work procedure 1.4 Bacterial disease is treated as per VMD guidelines 1.5 Bacterial disease is prevented and controlled as per work requirement
2. Manage viral diseases	2.1 <i>Tools and equipment</i> are identified and assembled as per work procedure 2.2 PPEs are donned as per work requirement. 2.3 <i>Viral disease</i> is diagnosed as per work procedure 2.4 Viral disease is managed as per VMD guidelines 2.5 Viral disease is prevented and controlled as per work requirement.
3. Manage fungal diseases	3.1 <i>Tools and equipment</i> are identified and assembled as per work procedure 3.2 <i>PPEs</i> are donned as per work requirement. 3.3 <i>Fungal disease</i> is diagnosed as per work procedure

	3.4 Fungal disease is treated as per VMD guidelines 3.5 Fungal 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.

Variable	Range
1. Bacterial diseases include but not limited to	• Anthrax • Black-quarter • Brucellosis • Tuberculosis • CCPP • CBPP • Pasteurellosis
2. Viral diseases include but not limited to	• Rabies • Lumpy skin disease • Rift Valley Fever • Foot and Mouth Disease • Swine Influenza • New Castle Disease • Infectious Bronchitis • Fowl pox
3. Fungal diseases include but not limited to	• Candidiasis • Aspergillosis • Dermatophylosis • Taeniosis

4. Tools, equipment, materials, and supplies	• Thermometer • Stethoscope • Microscope • Syringes & Needles • Automatic Syringes • Cool boxes • Scalpel blades • Surgical spirit
5. Personal Protection Equipment and Apparel include but not limited to	• Gloves • Overall • Dustcoats • Gum boots • Face masks

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
- Vaccine handling skills
- Communication skills
- Interpersonal skills

Required knowledge

The individual needs to demonstrate knowledge of:

- Pharmacology
- Immunology and Vaccines
- 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	Assessment requires evidence that the candidate: 1.1 Identified and assembled Tools and equipment as per work procedure 1.2 Donned PPEs as per work requirement 1.3 Diagnosed bacterial disease as per work procedure 1.4 Treated bacterial disease as per VMD guidelines 1.5 Prevented and controlled bacterial disease as per work requirement 1.6 Diagnosed viral disease as per work procedure 1.7 Managed viral disease as per VMD guidelines 1.8 Prevented and controlled Viral disease as per work requirement. 1.9 Diagnosed fungal disease as per work procedure 1.10 Treated fungal disease as per VMD guidelines 1.11 Prevented and controlled fungal disease as per work requirement
2 Resource Implications	The following resources must be provided: 2.1 Appropriately simulated environment where assessment can take place

	2.2 Access to relevant work environment 2.3 Resources relevant to the proposed activities or tasks
3.Methods of Assessment	Competency may be assessed through: 3.1. Observation 3.2. Oral questioning 3.3. Written test 3.4. Portfolio of Evidence 3.5. Interview 3.6. Third party report
4. Context of Assessment	Competency may be assessed in a: Workplace or simulated workplace.
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.