

APPLY KNOWLEDGE OF ZOONOSES AND ONE HEALTH CONCEPT

UNIT CODE: 0841 541 15A

TVET CDACC UNIT CODE: HE/OS/AHP/CC/22/6/MA

UNIT DESCRIPTION:

This unit specifies the competencies required by a veterinary technologist in order to apply knowledge on zoonoses and one health concept. It involves applying knowledge of zoonoses, diagnosing zoonoses in animals, treating zoonoses in animals, preventing the incidence of zoonoses, controlling the spread of zoonoses and applying knowledge of one health.

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. Apply knowledge of zoonosis	1.1. <i>Zoonoses</i> are classified as per WHO guidelines. 1.2. <i>Zoonoses transmission</i> is managed as per work requirement 1.3 Zoonotic risk to humans is managed as per work procedure.
2. Diagnose zoonosis in animals	2.1 Clinical findings are identified as per work procedure 2.2 <i>Laboratory samples</i> are collected and analyzed as per work procedure 2.3 Postmortem examination is carried out as per work procedure
3. Prevent and treat zoonosis in animals	3.1 Intervention is identified as per diagnosis 3.2 Treatment is carried out as per VMD guidelines. 3.3 <i>Biosecurity measures</i> are applied as per requirement. 3.4 vaccination programs are carried out as per veterinary vaccination guidelines
4. Apply knowledge of	4.1 One health concept is applied as per WHO guidelines

one health	4.2 Components of One health triad are managed as per WHO guidelines. 4.3 One health principles are applied 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. Zoonoses include but not limited to	● Rabies ● Anthrax ● Brucellosis ● Listeriosis ● Dermatophytosis ● Rift valley fever ● Toxoplasmosis
2. Modes of transmission include but not limited to	● Direct contact ● Inoculation ● Aerosol ● Ingestion
3. Laboratory samples include but not limited to	● Blood ● Tissue ● Serum ● Milk
4. Biosecurity measures	● cleaning and sanitizing ● disinfection and sterilization ● isolation ● quarantine ● testing and slaughter

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:

- Communication skills
- Training skills
- Animal husbandry
- Animal handling

Required knowledge

The individual needs to demonstrate knowledge of:

- Animal health
- Animal behaviour
- Animal anatomy and physiology
- Environment protection laws and regulations
- Waste management and disposal methods

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 Classified zoonoses as per WHO guidelines. 1.2 Managed zoonoses transmission as per work requirement 1.3 Managed zoonotic risk to humans as per work procedure. 1.4 Identified clinical findings as per work procedure 1.5 Collected and analyzed laboratory samples as per work procedure 1.6 Applied biosecurity measures as per requirement. 1.7 Carried out vaccination programs as per veterinary vaccination guidelines 1.8 Applied one health concept as per WHO guidelines
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.