

## ZOONOSES AND ONE HEALTH CONCEPT

**UNIT CODE: 0841 441 14A**

**TVET CDACC UNIT CODE: HE/CU/AHP/CC/21/5/MA**

### **Relationship to Occupational Standards**

This unit addresses the unit of competency: Apply knowledge of zoonoses and One health concept.

**Duration of Unit: 80 hours**

### **Unit Description**

This unit specifies the competencies required by an Animal Health and Production technician in order to apply knowledge on zoonoses and one health concept. It involves applying knowledge of zoonoses, diagnosing zoonoses in animals, treating and preventing zoonoses in animals; and applying knowledge of one's health.

### **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.	Apply knowledge of zoonosis	20
2.	Diagnose zoonosis in animals	30
3.	Prevent and treat zoonosis in animals	20
4.	Apply knowledge of one health	10
<b>Total</b>		<b>80</b>

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Apply knowledge of zoonosis	1.1 Introduction to zoonosis 1.2 Classification of zoonoses 1.2.1 Rabies 1.2.2 Anthrax 1.2.3 Brucellosis 1.2.4 Listeriosis 1.2.5 Dermatophytosis 1.2.6 Rift valley fever 1.2.7 Toxoplasmosis 1.3 Zoonoses transmission 1.3.1 Direct contact 1.3.2 Inoculation 1.3.3 Aerosol 1.3.4 Ingestion 1.4 Zoonotic risk to humans	<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>
2. Diagnose zoonosis in animals	2.1 Clinical findings of zoonoses 2.1.1 Rabies 2.1.2 Anthrax 2.1.3 Brucellosis 2.1.4 Listeriosis 2.1.5 Dermatophytosis 2.1.6 Rift valley fever 2.1.7 Toxoplasmosis 2.2 Collection and analysis of laboratory samples 2.2.1 Blood 2.2.2 Tissue 2.2.3 Serum 2.2.4 Milk	<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>

	2.3 Post-mortem examination	
3. Prevent and treat zoonosis in animals	<p>3.1 Identification of intervention of zoonoses</p> <p>3.2 Treatment of zoonoses</p> <p>    3.2.1 Biosecurity measures</p> <p>    3.2.2 Cleaning and sanitizing</p> <p>    3.2.3 Disinfection and sterilization</p> <p>    3.2.4 Isolation</p> <p>    3.2.5 Quarantine</p> <p>    3.2.6 Testing and slaughter</p> <p>3.3 Vaccination programs</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. Apply knowledge of one health	<p>4.1 One health concept</p> <p>4.2 Components of One health triad</p> <p>4.3 One health principles</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>

### Suggested Methods of Instruction

- Practical
- Projects
- Demonstrations
- Group discussion
- Direct instructions

### Recommended Resources for 25 trainees

S/NO	Category/Item	Description/specification	Qty	Recommended ratio (item: trainee)
1.	Projector	EPSOM	1	1:25
2.	Whiteboard/smartboard	2.5 By 1.5.M	1	1:25
3.	Desktop/computer		1	1:25
4.	Classroom	Well-lit with 25 seats	1	1:25
5.	Library	Equipped with zoonoses and one concept books and E-section	1	1:25
6.	Animal farm			
7.	Scapel		100	4:1
8.	Blood collection tubes		100	4:1
9.	Swabs		100	4:1
10.	Vacutainer		100	4:1
11.	Vacutainer test tubes with EDTA		100	4:1
12.	Sample container		100	4:1
13.	Centrifuge		5	1:5
14.	Brain punch kit		25	1:1