

## ZOONOSIS AND ONE HEALTH CONCEPT

**ISCED UNIT CODE:** 0841 541 15A

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

### Relationship to Occupational Standards

This unit addresses the Unit of Competency: Apply knowledge of zoonoses and one health concept .

**UNIT DURATION:** 60 Hours

### Unit Description

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

### Summary of Learning Outcomes

By the end of this unit, the learner should be able to:

S/No	Learning Outcomes	Duration (Hours)
1.	Apply knowledge of zoonosis	15
2.	Diagnose zoonosis in animals	15
3.	Prevent and treat zoonosis in animals	15
4.	Apply knowledge of one health	15
<b>Total</b>		<b>60</b>

### Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
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<p>1. Apply knowledge of zoonosis</p>	<p>1.1. Introduction to zoonoses  1.2. Classification of zoonoses  1.3. Zoonotic diseases      1.3.1. Rabies      1.3.2. Anthrax      1.3.3. Brucellosis      1.3.4. Listeriosis      1.3.5. Dermatophytosis      1.3.6. Rift valley fever      1.3.7. Toxoplasmosis  1.4. Zoonoses transmission      1.4.1. Direct contact      1.4.2. Inoculation      1.4.3. Aerosol      1.4.4. Ingestion  1.5. Zoonotic risks to humans</p>	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Portfolio of evidence</li> <li>• Third party report</li> <li>• Written assessment</li> <li>• Oral questioning</li> </ul>
<p>2. Diagnose zoonosis in animals</p>	<p>2.1. Clinical diagnosis of zoonosis in animals  2.2. Collection and analysis of zoonosis samples      2.2.1. Blood      2.2.2. Tissue      2.2.3. Serum      2.2.4. Milk  2.3. Post-mortem examination</p>	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Portfolio of evidence</li> <li>• Third party report</li> <li>• Written assessment</li> <li>• Oral questioning</li> </ul>

3.Prevent and treat zoonosis in animals	3.1. Intervention of diagnosed zoonotic disease 3.2. Prevent and treat zoonosis in animals 3.3. Biosecurity measures to control zoonosis diseases 3.3.1. Cleaning and sanitizing 3.3.2. Disinfection and sterilization 3.3.3. Isolation 3.3.4. Quarantine 3.3.5. Testing and slaughter 3.4. Vaccination programs	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Portfolio of evidence</li> <li>• Third party report</li> <li>• Written assessment</li> <li>• Oral questioning</li> </ul>
4.Apply knowledge of one health	4.1. One health concept 4.2. Components of One health triad 4.3. One health principles	<ul style="list-style-type: none"> <li>• Practical</li> <li>• Project</li> <li>• Portfolio of evidence</li> <li>• Third party report</li> <li>• Written assessment</li> <li>• Oral questioning</li> </ul>

### Suggested Methods of delivery

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

### Recommended Resources for 25 Trainees

S/No.	Category/Item	Description/ Specification	Quantity	Recommended Ratio (Item:
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				<b>Trainee)</b>
	<b>Learning materials</b>			
1.	Projector		1	1:25
2.	Whiteboard/Smart board		1	1:25
3.	Desktop/computer		1	1:25
4.	Lecture/Theory room		1	1:25
5.	Laboratory	As guided by KVB	1	1:25
6.	Animal farm	As guided by KVB	1	1:25
7.	Surgical kit	Full set	5	1:5
8.	Library		1	1:25
9.	E-Library		1	1:25