

## **EMERGING LIVESTOCK AND COMPANION ANIMALS MANAGEMENT**

**UNIT CODE:** 0811 551 26 A

**TVET CDACC UNIT CODE:** AGR/CU/AP/CR/02/6/MA

### **Relationship to Occupational Standards**

This unit addresses the Unit of Competency: Manage emerging livestock and companion animals

**Duration of the unit: 50 Hours**

### **UNIT DESCRIPTION**

This unit specifies competencies required to manage emerging livestock. It involves rearing of ostrich, rearing of quail, rearing of guinea fowls, farming of crocodile, and management of companion animals.

### **Summary of Learning Outcomes**

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

S/No	Learning Outcomes	Duration (Hours)
1.	Carry out rearing of ostrich	10
2.	Carry out rearing of quail	10
3.	Carry out rearing of guinea fowls	10
4.	Carry out rearing of crocodile	10
5.	Carry out management of companion animals	10
<b>Total</b>		<b>50</b>

### **Learning Outcomes, Content and Suggested Assessment Methods**

Learning Outcomes	Content	Suggested Assessment Methods
1. Carry out Ostrich rearing	1.1. Planning for ostrich farming 1.1.1. Research on;	<ul style="list-style-type: none"><li>● Written assessment</li><li>● Practical</li><li>● Projects</li></ul>

	<ul style="list-style-type: none"> <li>• Market,</li> <li>• Legal requirements,</li> <li>• Welfare requirements,</li> <li>• Potential challenges</li> <li>• Financial considerations before starting</li> </ul> <p>1.1.2. Business plan development</p> <p>1.1.3. Acquiring permits and licence</p> <p>1.1.4. Species selection</p> <p>1.2. Facilities and equipment for ostrich farming</p> <ul style="list-style-type: none"> <li>• Land</li> <li>• Shelter</li> <li>• Fencing</li> <li>• Feeding and watering systems</li> <li>• Handling facilities</li> </ul> <p>1.3. Ostrich Breeding management</p> <p>1.4. Hatching and chicks care</p> <ul style="list-style-type: none"> <li>• Egg collection</li> <li>• Incubation</li> </ul> <p>1.5. Routine management practices</p> <ul style="list-style-type: none"> <li>• Started diet</li> <li>• Vaccination</li> <li>• Parasite control</li> </ul> <p>1.6. Marketing of ostrich and their products</p> <p>1.7. Bio-security practices</p> <p>1.8. Waste management</p> <p>1.9. Record maintenance</p>	<ul style="list-style-type: none"> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Oral questions</li> </ul>
2. Carry out Quail rearing	<p>2.1. Planning for quail farming</p> <p>2.2. Facilities and equipment for rearing quail</p> <p>2.3. Breeding management</p>	<ul style="list-style-type: none"> <li>• Written assessment</li> <li>• Practical</li> <li>• Projects</li> </ul>

	<p>2.4. Hatching and chick performance</p> <p>2.5. Routine management</p> <p>2.6. Quails and products marketing</p> <p>2.7. Bio-security practices</p> <p>2.8. Waste management</p> <p>2.9. Records maintenance</p>	<ul style="list-style-type: none"> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>
3. Carry out Guinea Fowls rearing	<p>3.1. Planning for Guinea fowl farming</p> <p>3.2. Preparation of facilities and equipment for Guinea fowl rearing</p> <p>3.3. Breeding management</p> <ul style="list-style-type: none"> <li>3.3.1. Breeding stock selection</li> <li>3.3.2. Breeding ratio</li> <li>3.3.3. Egg collection</li> <li>3.3.4. Egg incubation</li> <li>3.3.5. Brooding</li> </ul> <p>3.4. Hatching and chicks care</p> <p>3.5. Routine management practices</p> <p>3.6. Guinea fowls and products marketing</p> <p>3.7. Bio-security practices</p> <p>3.8. Waste management</p> <p>3.9. Quil record maintenance</p>	<ul style="list-style-type: none"> <li>● Written assessment</li> <li>● Practical</li> <li>● Projects</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>
4. Carry out crocodile rearing	<p>4.1. Crocodile farming planning</p> <p>4.2. Preparation of facilities and equipment for crocodile farming</p> <p>4.3. Breeding management</p> <ul style="list-style-type: none"> <li>4.3.1. Feeding</li> <li>4.3.2. Grading and segregation</li> <li>4.3.3. Monitoring progress</li> <li>4.3.4. Health care provision</li> <li>4.3.5. Breeding stock selection</li> </ul> <p>4.4. Hatching care</p>	<ul style="list-style-type: none"> <li>● Written assessment</li> <li>● Practical</li> <li>● Projects</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>

	<p>4.4.1. Egg collection</p> <p>4.4.2. Incubation</p> <p>4.4.3. Started diet</p> <p>4.4.4. Vaccination</p> <p>4.4.5. Parasite control</p> <p>4.5. Routine management</p> <p>4.6. Crocodile breeding methods and technologies</p> <p>4.6.1. Breeding methods (natural breeding or hormone induced)</p> <p>4.7. Bio-security practices</p> <p>4.7.1. Fencing</p> <p>4.7.2. Vaccination</p> <p>4.7.3. Movement control</p> <p>4.7.4. Depopulation</p> <p>4.8. Waste management</p> <p>4.9. Records management</p>	
5. Carry out management of companion animals	<p>5.1. Determination of nutrient requirements of dogs and cats</p> <p>5.2. Feeding of dogs and cats based on nutritional requirements</p> <p>5.3. Feeding regime/schedule for dogs and cats</p> <p>5.3.1. Feeding based on age – puppies/kittens, adult dogs/cats, senior dogs/ cats</p> <p>5.3.2. Feeding based on breeds – giant breeds, active breeds</p> <p>5.3.3. Feeding based on health status – weight management, medical conditions</p> <p>5.3.4. Feeding based on type of food – dry, wet, raw food diets</p>	<ul style="list-style-type: none"> <li>● Written assessment</li> <li>● Practical</li> <li>● Projects</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>

	<p>5.3.5. Feeding schedule consistency</p> <p>5.3.6. Fresh water availability</p> <p>5.4. Breeding management of dogs and cats</p> <p>5.4.1. Animal selection</p> <p>5.4.2. Health checks</p> <p>5.4.3. Breeding age</p> <p>5.4.4. Heat cycles (females)</p> <p>5.4.5. Stud selection</p> <p>5.4.6. Mating methods (natural/artificial insemination)</p> <p>5.4.7. Pregnancy and whelping/kittening</p> <p>5.5. Management of pregnant dogs and cats</p> <p>5.5.1. Prenatal care</p> <p>5.5.2. Whelping/kittening box preparation</p> <p>5.5.3. Delivery monitoring</p> <p>5.5.4. Postnatal care</p> <p>5.6. Parturition preparation</p> <p>5.7. Management of puppies and kittens</p> <p>5.7.1. Monitoring weight gain,</p> <p>5.7.2. Keeping them warm and clean,</p> <p>5.7.3. Stimulating elimination in young pups/kittens</p> <p>5.7.4. Vaccination</p> <p>5.7.5. Deworming</p> <p>5.7.6. Early socialization</p> <p>5.8. Housing of dogs and cats</p> <p>5.9. Routine management practices in dogs and cats</p> <p>5.10. Record management</p>	
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### Suggested methods of delivery

- Practical
- Project
- Demonstration
- Group work and Discussions
- Direct instruction

### Recommended resources for 25 trainees

<b>S/No.</b>	<b>Category/Item</b>	<b>Description/ Specifications</b>	<b>Quantity</b>	<b>Recommen ded Ratio (Item: Trainee)</b>
<b>A</b>	<b>Learning Materials</b>			
1	Charts	Flip Charts Rules and Regulations	5	1:5
2.	Markers	whiteboard markers and permanent markers	5	1:5
3.	Video clips Audio tapes	MP4, MP3	5	1:5
4.	Newspapers and Handouts	Daily	25	1:1
5.	Business Journals	Annual, Monthly, Daily	25	1:1
<b>B</b>	<b>Learning Facilities &amp; Infrastructure</b>			
1.	Lecture/Theory Room	(9* 8 sq. metres)	1	1:25
2.	Internet Connection	WI-FI, Dial-Up, Cable, Fixed-wireless,	1	1:25
3	Barn		1	1:25

4	Feeding facility		5	1:5
5	Feed storage		1	1:25
<b>C</b>	<b>Consumable Materials</b>			
1.	Flashcards	Alphabet, Numbers, Math	25	1:1
2.	Stationery	Printing Papers, and Exercise Books Sizes A4, A3, A2 etc	5 reams	1:5
.3.		sufficient	5	2:5
4.	Timber	any	sufficient	
5.	Iron sheets	any	sufficient	
6.	Cement	any	sufficient	
7	Nails	Sufficient	Sufficient	
	Pipes	sufficient	sufficient	
<b>D</b>	<b>Equipment</b>			
1.	Computers/Laptops	Any model	1	1:25
2.	Projector	LED.LCD, Laser	5	1:5
3.	Whiteboard	Glass, melamine, porcelain	1	1:25
<b>F</b>	<b>Specimen</b>			
1.	<b>crocodile</b>		2	2:25
2.	<b>ostrich</b>		2	2:25
3.	<b>Guinea foul</b>		2	2:25
4	<b>cat</b>		2	2:25
5	<b>dog</b>		2	2:25