

RUMINANT LIVESTOCK PRODUCTION

ISCED UNIT CODE: 0811 541 17A

TVET CDACC UNIT CODE: HE/CU/AHP/CC/16/6/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Apply Knowledge of ruminant livestock production systems.

UNIT DURATION: 60 Hours

Unit Description

This unit specifies the competencies required by animal health and production technologist in order to apply knowledge of livestock production systems in ruminants. It involves managing ruminant production systems, carrying out routine ruminant practices and determining the economic implications of keeping ruminants.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Manage ruminant production system	25
2.	Carry out routine ruminant practices	25
3.	Determine economic implications of keeping ruminant livestock	10
Total		60

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Manage ruminant production systems	1.1. Ruminant animals 1.1.1. Cow 1.1.2. Sheep 1.1.3. Goat	<ul style="list-style-type: none">• Practical• Project• Portfolio of evidence

	<p>1.2. Ruminant production systems</p> <p>1.2.1. Intensive</p> <p>1.2.2. Extensive</p> <p>1.2.3. Semi intensive</p> <p>1.3. Ruminant structures management</p> <p>1.3.1. Calf pen</p> <p>1.3.2. Milking shed</p> <p>1.3.3. Crush</p> <p>1.3.4. Plunge dip</p> <p>1.3.5. Spray race</p> <p>1.3.6. Zero grazing unit</p> <p>1.4. Maintenance practices-cleaning, repair</p>	<ul style="list-style-type: none"> • Third party report • Written assessment • Oral questioning
<p>2. Carry out routine ruminant practices</p>	<p>2.1. Feeding ruminant animals</p> <p>2.2. Types of feeds.</p> <p>2.3. Feeding procedure</p> <p>2.4. Quantity of feeds</p> <p>2.5. Feed Quality</p> <p>2.6. Feeding schedule</p> <p>2.7. Ruminant health management</p> <p>2.7.1. Proper Nutrition</p> <p>2.7.2. Vaccination</p> <p>2.7.3. Housing</p> <p>2.7.4. Biosecurity</p> <p>2.8. Ruminant records documentation</p> <p>2.8.1. Breeding records</p> <p>2.8.2. Feeding records</p> <p>2.8.3. Health records</p> <p>2.8.4. Production records</p>	<ul style="list-style-type: none"> • Practical • Project • Portfolio of evidence • Third party report • Written assessment • Oral questioning
<p>3. Determine economic implications of keeping</p>	<p>3.1. Economic implications of ruminant keeping</p> <p>3.2. Ruminant production constraints</p> <p>3.3. Roles of ruminants in Kenya's economy</p>	<ul style="list-style-type: none"> • Practical • Project • Portfolio of evidence • Third party report

ruminant livestock		<ul style="list-style-type: none"> • Written assessment • Oral questioning
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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: Trainee)
	Learning materials			
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.	Animal farm	As guided by KVB	1	1:25
6.	Library		1	1:25
7.	E-Library		1	1:25