SHEEP PRODUCTION

UNIT CODE: 0811 351 18 A

TVET CDACC UNIT CODE: AGR/CU/AP/CR/05/4/MA

Relationship to Occupational Standards

This unit addresses the unit of competency: Carry Out Sheep Production

Duration of Unit: 80 Hours

UNIT DESCRIPTION

This unit specifies competencies required to carry out sheep production. It involves constructing sheep structures, carrying out sheep feeding, carrying out sheep breeding, carrying out lamb management, performing sheep routine management practices and marketing sheep products.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Construct sheep structures	20
2.	Carry out Sheep feeding	10
3.	Carry out sheep breeding	10
4.	Carry out lamb management	15
5.	Perform sheep routine management practices	20
6.	Market sheep products	5
	Total	**80**

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Construct sheep structures	1.1. Construction tools, equipment and materials 1.1.1. Tools	• Written assessment • Practical • Projects

	• Hammer	• Third party report
	• Screw drivers	• Portfolio of evidence
	• Tape measures	• Oral questions
	• level	
	• saw	
	• drill	
	• pliers	
	• chisel	
	1.1.2. Equipment	
	• Bulldozer	
	• Cranes	
	• Dump trucks	
	• Mixer	
	• Forklifts	
	1.1.3. Materials	
	• Cement	
	• Sand	
	• Blocks	
	• Quary dust	
	1.2. Selection of site of sheep structures	
	1.3. Designing sheep structures	
	1.4. Construction of sheep structures	
	1.5. Maintenance of sheep structures	
	1.6. Sheep structures construction and record maintenance	
	1.7. Wate management	

2. Carry out Sheep feeding	2.1. Feeding tools, equipment and materials
	2.2. Types of sheep feeds
	    2.2.1. Proteins
	    2.2.2. Carbohydrate
	    2.2.3. Additives
	    2.2.4. Minerals
	2.3. Provision of basal rations at various physiological stages
	2.4. Feed supplements offered according to dietary requirement
	2.5. Identification of grazing management
	2.6. Determination of grazing capacity of the pasture
	2.7. Feed intake evaluation
	2.8. Evaluation of feed conversion efficiency
	2.9. Sheep feeding record
	2.10. Waste management
		• Written assessment
		• Practical
		• Projects
		• Third party report
		• Portfolio of evidence
		• Oral questions

3. Carry out sheep breeding	3.1. Breeding management tools, equipment and materials
	3.2. Sheep breeds
	    3.2.1. Hampshire Sheep
	    3.2.2. Dorset Sheep
	    3.2.3. Merino Sheep
	    3.2.4. Corriedale Sheep
	    3.2.5. Maasai sheep
	    3.2.6. Doper
	    3.2.7. Black head Persian
	3.3. Selection of sheep breeds
		• Written assessment
		• Practical
		• Projects
		• Third party report
		• Portfolio of evidence
		• Oral questions

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	3.4. Heat signs in ewes	
	3.5. Flushing	
	3.6. Raddling	
	3.7. Crutching and ringing	
	3.8. Servicing	
	3.9. Breeding methods and technologies	
	3.9.1. Artificial insemination	
	3.9.2. Natural method	
	3.9.3. Embryo transfer	
	3.9.4. Surrogate	
	3.10. Provision of care for pregnant ewes	
	3.10.1. Steaming up	
	3.11. Lambing management	
	3.12. Breeding records	
4. Carry out lamb management	4.1. Handling of lamb at birth 4.2. Feeding lamb on colostrum 4.3. Fostering of orphaned lambs 4.4. Lamb identification methods 4.5. Docking 4.6. Lamb weighing 4.7. Monitoring of lamb growth rate 4.8. Waste management	• Practical • Projects • Demonstrations • Direct instructions • Written assessment • Oral questioning

5. Perform sheep routine management practices	5.1. Sheep identification method
	    5.1.1. Ear Tagging
	    5.1.2. Ear Notching
		• Written assessment
		• Practical
		• Projects

	5.1.3. Neck Chains or Straps
	5.2. Sheep castration
	    5.2.1. Closed castration
	    5.2.2. Surgical Castration
	5.3. Trimming of overgrown hooves
	5.4. Wigging
	5.5. Shearing
	5.6. Culling
	5.7. Control of internal and external parasites
	5.8. Isolation and quarantine
	5.9. Control of notifiable diseases
	    5.9.1. Vaccination
	    5.9.2. Quarantine
	    5.9.3. Burning of carcass
	    5.9.4. Burring of carcass
	    5.9.5. Disinfection
	5.10. Provision of clean water ad-libitum
	5.11. Record keeping
		• Third party report
		• Portfolio of evidence
		• Oral questions

6. Market sheep products	6.1. Conducting market survey
	6.2. Sheep products
	    6.2.1. Mutton
	    6.2.2. Wool
	    6.2.3. Hooves
	6.3. Sheep transportation
	6.4. Marketing records
		• Written assessment
		• Practical
		• Projects
		• Third party report
		• Portfolio of evidence
		• Oral questions

Suggested methods of delivery

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

Recommended Resources for 25 trainees

S/No.	Category/Item	Description/ Specifications	Quantity	Recommended Ratio (Item: Trainee)
A	**Learning Materials**			
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
6.	Breeder's manuals	updated	5	1:5
B	**Learning Facilities & Infrastructure**			
7.	Lecture/Theory Room	(9* 8 sq. metres)	1	1:25
8.	Internet Connection	WI-FI, Dial-Up, Cable, Fixed-wireless,	1	1:25

9.	Drinkers	1	1	1:25
10.	Feeding trough	1	1	1:25
11.	Grass	1	1	1:25
12.	Shrub	Well equipped	1	1:25
C	**Consumable Materials**			
13.	Flashcards	Alphabet, Numbers, Math	25	1:1
14.	Stationery	Printing Papers, and Exercise Books Sizes A4, A3, A2 etc	5 reams	1:5
D	**Tools And Equipment**			
15.	Wheelbarrow	Any model	1	1:25
16.	Scissors	LED.LCD, Laser	5	1:5
17.	Hand drill	Glass, melamine, porcelain	1	1:25
18.	Panga	Any five	5	1:5
19.	Measuring tape	Any five	5	1:5
20.	Spade	Any five	5	1:5
21.	String/line	Any five	5	1:5
22.	Surgical blades	In good condition	5	1:5
23.	Ear Notchers	In good condition	5	1:5
24.	Ear tags	In good condition	5	1:5
25.	Neck chains	In good condition	5	1:5
26.	Straps with numbers	In good condition	5	1:5
F	**Specimens**			
1.	sheep breeds	- Hampshire Sheep - Dorset Sheep - Merino Sheep - Corriedale Sheep - Maasai sheep	1 each type	1:25

		• Doper • Black head Persian		