GOAT PRODUCTION

UNIT CODE: 0811 351 19 A

TVET CDACC UNIT CODE: AGR/CU/AP/CR/06/4/MA

Relationship to Occupational Standards

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

Duration of Unit: 80 Hours

UNIT DESCRIPTION

This unit specifies competencies required to carry out goat production. It involves constructing goat structures, carrying out goat breeding, carrying out goat feeding, performing goat routine management practices, carrying out kid management and marketing goat 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 goat structures	20
2.	Carry out goat feeding	10
3.	Carry out goat breeding	10
4.	Perform goat routine management practices	20
5.	Carry our kid management	10
6.	Market goat products	10
Total		**80**

Learning Outcomes, Content and Suggested Assessment Methods

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

	• Hammer	• Projects
	• Screw drivers	• Third party report
	• Tape measures	• Portfolio of evidence
	• Level	• Oral questions
	• 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 for goat structure	
	1.3 Construction of goat structures	
	1.4 Maintenance of goat structures	
	1.5 Construction and maintenance of goat structure records	
	1.6 Waste management	
2. Carry out goat feeding	2.1 Feeding tools, equipment	• Written assessment

	and materials	• Practical
	2.2 Goat feeds	• Projects
	o Grass	• Third party report
	o Shrubs	• Portfolio of evidence
	o Commercially formulated feeds	• Oral questions
	2.3 Provision of basal rations	
	2.4 Feed supplements	
	• Vitamins	
	• Minerals	
	• Hormones	
	• Medicants	
	2.5 Grazing management	
	2.6 Pasture grazing capacity	
	2.7 Evaluation of feed intake	
	2.8 Evaluation of feed conversion efficiency	
	2.9 Goat feeding records	
	2.10 Waste management	
3. Carry out goat breeding	3.1 Breeding management tools, equipment and materials	• Written assessment
	3.2 Goat breeds	• Practical
	o Angora, Alpine	• Projects
	o Toggenburg	• Third party report
	o Saanen, Jamnapuri	• Portfolio of evidence
	o Boar, Anglo-Nubian	• Oral questions
	o Somali/ Galla	
	3.3 Selection of goat breeds	
	3.4 Heat signs in does	
	3.5 Flushing	
	3.6 Servicing	

		3.7 Natural mating	
		3.8 Artificial insemination	
		3.9 Provision of care to pregnant does	
		3.10 Steaming up	
		3.11 Management of kid	
		3.12 Breeding records	

4.	Perform goat routine management practices	4.1 Goat identification methods
		  o Tattooing
		  o Ear-tagging
		  o Ear notching
		  o Microchips
		4.2 Goat castration methods
		  o Rubber ringing
		  o Open castration
		  o Closed castration
		4.3 Hoof trimming
		4.1 Shearing
		4.2 Culling
		4.3 Control of internal and external parasites
		4.4 Vaccination
		4.5 Isolation and quarantine
		4.6 Provision of clean water ad-libitum
		4.7 Records
			• Written assessment
			• Practical
			• Projects
			• Third party report
			• Portfolio of evidence
			• Oral questions

5.	Carry our kid management	5.1 Handling of kids at birth 5.2 Feeding kids on colostrum 5.3 Fostering of orphaned kids 5.4 Kid identification methods • Ear Tagging	• Written assessment • Practical • Projects • Third party report • Portfolio of evidence

	• Ear Notching • Neck Chains or Straps 5.5 Weighing of kids 5.6 Monitoring of kid growth rate 5.7 Waste management	• Oral questions
6. Market goat products	6.1 Conducting Market survey 6.2 Goat products • Milk • Wool • Shoven • Skin • Hooves 6.3 Goat transportation 6.4 Goat products marketing 6.5 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**			
27.	Charts	Flip Charts	5	1:5

		Rules and Regulations		
28.	Markers	whiteboard markers and permanent markers	5	1:5
29.	Video clips Audio tapes	MP4, MP3	5	1:5
30.	Newspapers and Handouts	Daily	25	1:1
31.	Business Journals	Annual, Monthly, Daily	25	1:1
32.	Breeder's manuals	updated	5	1:5
B	**Learning Facilities & Infrastructure**			
33.	Lecture/Theory Room	(9* 8 sq. metres)	1	1:25
34.	Internet Connection	WI-FI, Dial-Up, Cable, Fixed-wireless,	1	1:25
35.	Drinkers	1	1	1:25
36.	Feeding trough	1	1	1:25
37.	Grass	1	1	1:25
38.	Shrub	Well equipped	1	1:25
C	**Consumable Materials**			
39.	Flashcards	Alphabet, Numbers, Math	25	1:1
40.	Stationery	Printing Papers, and Exercise Books Sizes A4, A3, A2 etc	5 reams	1:5
D	**Tools And Equipment**			
41.	Wheelbarrow	Any model	1	1:25
42.	Scissors	LED.LCD, Laser	5	1:5
43.	Hand drill	Glass, melamine, porcelain	1	1:25

44.	Panga	Any five	5	1:5
45.	Measuring tape	Any five	5	1:5
46.	Spade	Any five	5	1:5
47.	String/line	Any five	5	1:5
48.	Surgical blades	In good condition	5	1:5
49.	Ear Notchers	In good condition	5	1:5
50.	Ear tags	In good condition	5	1:5
51.	Neck chains	In good condition	5	1:5
52.	Straps with numbers	In good condition	5	1:5
F	**Specimens**			
1.	Goat breeds	Angora, Alpine Toggenburg Saanen Jamnapuri Boar Anglo-Nubian Somali/ Galla	5each type	1:5