

VETERINARY PHARMACOLOGY AND TOXICOLOGY

UNIT CODE: 0512 451 32A

TVET CDACC UNIT CODE: HE/CU/AHP/CR/04/5/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage veterinary pharmaceuticals and toxins.

UNIT DURATION: 60 Hours

Unit Description

This unit specifies the competencies required by an animal health and production technician to manage veterinary pharmaceuticals and toxins. It involves dispensing and administering veterinary drugs, managing drug toxicities and toxins in animals.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Dispense veterinary drugs	20
2.	Administer veterinary drugs	15
3.	Manage drug toxicities	10
4.	Manage drug toxins in animals	15
Total		60

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Dispense veterinary drugs	1.1 Introduction to dispense veterinary drugs 1.2 Tools, equipment and materials for dispensing veterinary drugs 1.2.1 Cool boxes 1.2.2 Syringes and needles 1.2.3 Weight tape 1.2.4 Scalpel blades 1.2.5 Surgical spirit 1.3 Personal protective equipment for dispensing veterinary drugs 1.3.1 Gloves 1.3.2 Overall 1.3.3 Dust coats 1.3.4 Gumboots 1.3.5 Face masks 1.4 Veterinary drugs 1.4.1 Anesthetics 1.4.2 Anti-inflammatory 1.4.3 Antibiotics 1.4.4 Anthelmintics 1.4.5 Antifungal 1.4.6 Antihistamines 1.4.7 Antidiuretics 1.5 Prescription and dispensing of veterinary drugs	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
2. Administer veterinary drugs	2.1 Administer veterinary drugs 2.2 Veterinary drugs dosage rates 2.2.1 Calculation of drugs dosage	● Practical ● Project ● Written tests ● Third party report

		● Portfolio of evidence ● Oral questions
3. Manage drug toxicities	3.1 Diagnosis of drug toxicities 3.2 Management of drug toxicities 3.3 Prevention and control of drug toxicities	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
4. Manage toxins in animals	4.1 Diagnosis of toxins 4.1.1 Paints 4.1.2 Poisonous plants 4.1.3 Pesticides 4.1.4 Aflatoxins 4.1.5 Batteries 4.1.6 Poisonous animals 4.2 Management of toxicities in animals 4.3 Prevention and control of toxicities in animals	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

Suggested Methods of Delivery

- Demonstration
- Practical
- Projects
- Field training
- Discussions
- Direct instruction

Recommended Resources for 25 trainees

S/No.	Category/Item	Description/Specification	Quantity	Recommended Ratio (Item: Trainee)
A	Learning materials			
1.	Projector	EPSOM	1	1:25
2.	Whiteboard/Smartboard	2.5 By 1.5.M	1	1:25
3.	Desktop/computer		1	1:25
B	Learning Facilities &			

	Infrastructure			
4.	Lecture/Theory room	With at least 25 seats	1	1:25
5.	Library	Equipped with veterinary pharmaceuticals and toxins books and E-section	1	1:25
6.	Microbiology laboratory		1	1:25
7.	Holding crush		1	1:25
C	Consumable Materials			
8.	Syringes & Needles		Enough	-
9.	Drenching gun		Enough	-
10.	Cool boxes			
11.	Surgical spirit			
D	Tools and Equipment			
12.	Thermometer		25	1:1
13.	Ropes	Number 10 (sisal)	5	1:5
14.	Drenching guns	Complete unit-50ml	5	1:5
15.	Stomach tube	Plastic	5	1:5
16.	Vaginal specula	Plastic	5	1:5
17.	Weighing band		5	1:5
18.	Disinfectants		Enough	-