APPLY BASIC KNOWLEDGE OF ANIMAL ANATOMY AND PHYSIOLOGY

UNIT CODE: 0841 441 04A

TVET CDACC UNIT CODE: HE/OS/AHP/CC/01/5/MA

UNIT DESCRIPTION

This unit specifies the competencies required by an animal health technician to apply knowledge of animal anatomy and physiology. It involves applying principles of anatomy in animal handling, identifying animal tissues, organs and organ systems and identifying anatomical parts of the domestic fowl.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function	**PERFORMANCE CRITERIA** These are assessable statements which specify the required level of performance for each of the elements ***(Bold and italicized terms are elaborated in the range)***
1. Apply anatomical and physiological principles.	1.1 Animal anatomical principles are applied as per work procedure 1.2 Animal cell physiology knowledge is applied as per work procedure 1.3 Mammalian cell types knowledge is applied as per work procedure
2. Apply knowledge of animal's body systems	2.1 Animals tissues knowledge is applied as per work procedure 2.2 Animals organs knowledge is applied as per work procedure 2.3 Animals organ system knowledge is applied as per work procedure
3. Apply knowledge of domestic fowl anatomy and physiology	3.1 Domestic fowl digestive system knowledge is applied as per work procedure 3.2 Domestic fowl reproductive system knowledge is applied as per work procedure 3.3 Domestic fowl respiratory system knowledge is applied as per work procedure

4. Apply knowledge of environmental physiology	4.1 Environmental effects on animal physiology are managed as per work requirement. 4.2 Animal adaptive responses to environment are managed as per work requirement 4.3 Animal behavioral manifestation to environment are managed as per work requirement

RANGE

This section provides work environment and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	**Range**
1. Branches of anatomy include	● Gross anatomy ● Histology/ microscopic anatomy ● Embryology ● Comparative anatomy
2. Animal tissues may include but are not limited to:	● Epithelial ● Connective ● Nervous ● Muscle
2.Animal organs may include but are not limited to:	● Brain ● Heart ● Lungs ● Kidneys ● Liver
3.Animal organ system may include but are not limited to:	● Digestive ● Skeletal ● Muscular ● Integument ● Reproductive

	• Respiratory • Circulatory • Immune • Lymphatic • Endocrine • Nervous • Excretory

REQUIRED KNOWLEDGE AND SKILLS

This section describes the knowledge and skills required for this unit of competency.

Required skills

The individual needs to demonstrate the following skills:

- Organizing skills
- Analytical skills
- Interpersonal skills
- Communication skills
- Evaluation skills
- Problem solving
- Critical thinking

Required knowledge

The individual needs to demonstrate knowledge of:

- Basic anatomy
- Anatomical terminologies
- Scope of anatomy

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills range.

1. Critical aspects of competency	Assessment requires evidence that the candidate: 1.1 Applied animal anatomical principles as per work procedure 1.2 Applied animal cell physiology knowledge as per work procedure 1.3 Applied mammalian cell types knowledge as per work procedure 1.4 Applied animal tissues knowledge as per work procedure 1.5 Applied animal organs knowledge as per work procedure 1.6 Applied animal organ system knowledge as per work procedure 1.7 Applied domestic fowl digestive system knowledge as per work procedure 1.8 Applied domestic fowl reproductive system knowledge as per work procedure 1.9 Applied domestic fowl respiratory system knowledge as per work procedure 1.10 Managed environmental effects on animal physiology as per work requirement. 4.2 Managed animal adaptive responses to environment as per work requirement 4.3 Managed animal behavioral manifestation to environment as per work requirement
2. Resource implications	The following resources must be provided: 2.1 Appropriately simulated environment where assessment can take place 2.2 Access to relevant work environment 2.3 Resources relevant to the proposed activities or tasks
3. Methods of assessment	Competency may be assessed through: ● Practical ● Project

	● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
4. Context of assessment	Assessment could be conducted: Workplace or simulated workplace
5. Guidance information for assessment	Holistic assessment with related units in the sector