

APPLY KNOWLEDGE OF BASIC GENERAL PATHOLOGY

UNIT CODE: 0912 541 12A

TVET CDACC UNIT CODE: HE/OS/AHP/CC/14/6/MA

UNIT DESCRIPTION

This unit specifies the competencies required by an animal health technologist to apply knowledge of basic general pathology. It involves applying principles of pathology, knowledge of cell injury, inflammation, tissue healing and repair, hemodynamic disorder, cellular adaptation and neoplasia.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace functions	These are assessable statements which specify the required level of performance for each of the elements <i>(Bold and italicized terms are elaborated in the range)</i>
1. Apply principles of pathology	1.1 General pathology knowledge is applied as per work requirement. 1.2 <i>Pathological classes</i> knowledge is applied as per work requirement 1.3 Pathological terminologies knowledge is applied as per work procedure
2. Apply knowledge of cell injury	2.1 Cell injury knowledge is applied as per work requirement 2.2 Cause of cell injury is managed as per work procedure 2.3 Cell injury is managed as per work procedure
3. Apply knowledge of tissue inflammation	3.1 Inflammation knowledge is applied as per work requirement 3.2 Inflammation classification knowledge is applied as per work requirement 3.3 Inflammation is managed as per work requirement
4. Apply knowledge of tissue healing and repair	4.1 Wound healing by first intention knowledge is applied as per work requirement 4.2 Wound healing by second intention knowledge is applied as

	per work requirement 4.3 Factors affecting wound healing are managed as per work procedure
5 Apply knowledge of hemodynamic disorders	5.1 Hyperemia and congestion are managed as per work requirement 5.2 Hemorrhage is managed as per work requirement 5.3 Thrombosis and embolism are managed as per work requirement 5.4 Oedema is managed as per work requirement 5.5 Infarction is managed as per work requirement 5.6 Shock is managed as per work requirement
6 Apply knowledge of cellular adaptations	6.1 Cellular adaptations knowledge is applied as per work requirement 6.2 Cellular adaptations causes are managed as per work requirement 6.3 Differentiation disturbance is managed as per work requirement
7 Apply knowledge of neoplasia	7.1 Neoplasia knowledge is applied as per work requirement 7.2 Causes of neoplasia are managed as per work requirement 7.3 Neoplasms 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
Pathological classes may include but are not limited to:	- Anatomical pathology - Clinical pathology - Forensic pathology - Histopathology - Surgical pathology - Dermatopathology
Neoplasia may include but not limited	Carcinoma

to:	● Sarcoma ● Adenoma ● Lymphoma
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REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge

The individual needs to demonstrate knowledge of:

- Basic knowledge of pathology
- Pathological terminologies
- Neoplasia
- Inflammation
- Tissue healing and repair

Required skills

The individual needs to demonstrate the following skills:

- Evaluations skills
- Critical thinking
- Surgical skills
- Animal handling
- Communication skills

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 cell injury knowledge as per work requirement 1.2 Applied inflammation knowledge as per work requirement
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	1.3 Managed inflammation as per work requirement 1.4 Applied wound healing by first intention knowledge as per work requirement 1.5 Applied wound healing by second intention knowledge as per work requirement 1.6 Managed hyperemia and congestion as per work requirement 1.7 Managed hemorrhage as per work requirement 1.8 Managed thrombosis and embolism as per work requirement 1.9 Managed oedema as per work requirement 1.10 Managed infarction as per work requirement 1.11 Managed shock as per work requirement 1.12 Applied cellular adaptations knowledge as per work requirement 1.13 Applied neoplasia knowledge as per work requirement 1.14 Managed causes of neoplasia as per work requirement
5. 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
2 Methods of assessment	Competency in this unit may be assessed through: 2.1 Practical assessment 2.2 Oral questioning 2.3 Portfolio of evidence 2.4 Interviews 2.5 Third party report 2.6 Written tests
3 Context of assessment	Competency may be assessed in a: Workplace or simulated workplace
4 Guidance information for assessment	Holistic assessment with other units relevant to the industry sector and workplace job role is recommended.