

APPLY KNOWLEDGE OF BOTANY AND ZOOLOGY

UNIT CODE: 0511 541 23A

TVET CDACC UNIT CODE: HE/OS/AHP/CC/04/6/MA

UNIT DESCRIPTION:

This unit specifies the competencies required by an animal health technologist to apply knowledge of botany and zoology in animal health and production. It involves applying knowledge of botany and zoology, plant morphology and plant and animal classification.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes, which make up workplace function.	These assessable statements specify the required level of performance for each element. <i>Bold and italicized terms are elaborated in the range.</i>
1. Apply knowledge of botany and zoology	1.1. Basic concept of botany and zoology is applied as per work requirement 1.2. Cell division stages knowledge is applied as per job requirement 1.3. Plant organization knowledge is applied as per work requirement
2. Apply knowledge of plant morphology	2.1 Leaf structure knowledge is applied as per work requirement 2.2 Flower structure knowledge is applied as per work requirement 2.3 Fruits and seeds formation knowledge is applied as per work requirement
3. Apply knowledge of plant and animal classification in animal production	3.1 Plant classification knowledge is applied as per work procedure 3.2 Animal classification knowledge is applied as per work procedure 3.3 Hierarchical groupings knowledge in animals and plants is applied as per job requirement 3.4 <i>Phyla of veterinary importance</i> are identified as per job requirement

RANGE

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

Variable	Range
1. Phyla of veterinary importance	• Chordata • Nematoda • Platyhelminthes • Arthropoda • Mollusca

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

The individual needs to demonstrate the following skills:

- Numeracy skills
- Health & safety skills
- Interpersonal skills

Required knowledge

The individual needs to demonstrate knowledge of:

- anatomy and physiology
- Pharmacology
- Microbiology
- Parasitology

EVIDENCE GUIDE

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

1. Critical Aspects of Competency	1.1 Applied basic concept of botany and zoology as per work requirement 1.2 Applied cell division stages knowledge as per job requirement 1.3 Applied plant organization knowledge as per work requirement
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	1.4 Applied leaf structure knowledge as per work requirement 1.5 Applied flower structure knowledge as per work requirement 1.6 Applied fruits and seeds formation knowledge as per work requirement 1.7 Applied plant classification knowledge as per work procedure 1.8 Applied animal classification knowledge as per work procedure 1.9 Applied hierarchical groupings knowledge in animals and plants as per as per job requirement 1.10 Identified phyla of veterinary importance as per job 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: 3.1 Observation 3.2 Oral questioning 3.3 Written test 3.4 Portfolio of Evidence 3.5 Interview 3.6 Third party report
4. Context of Assessment	Competency may be assessed in a: Workplace or simulated workplace.
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.