

<b>VARIABLE</b>	<b>RANGE</b>
4. Characteristics of Entrepreneurs may include but not limited to:	<ul style="list-style-type: none"> <li>• Creative</li> <li>• Innovative</li> <li>• Planner</li> <li>• Risk taker</li> <li>• Networker</li> <li>• Confident</li> <li>• Flexible</li> <li>• Persistent</li> <li>• Patient</li> <li>• Independent</li> <li>• Future oriented</li> <li>• Goal oriented</li> </ul>
5. Requirements for entry into self-employment may include but not limited to	<ul style="list-style-type: none"> <li>• Technical skills</li> <li>• Management skills</li> <li>• Entrepreneurial skills</li> <li>• Resources</li> <li>• Infrastructure</li> </ul>
6. Forms of businesses ownership may include but not limited to:	<ul style="list-style-type: none"> <li>• Sole proprietorship</li> <li>• Partnership</li> <li>• Limited companies</li> <li>• Cooperatives</li> </ul>
7. Innovative business standards may include but not limited to:	<ul style="list-style-type: none"> <li>• New products</li> <li>• New methods of production</li> <li>• New markets</li> <li>• New sources of supplies</li> <li>• Change in industrialization</li> </ul>

## **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:

- Analytical
- Management
- Problem-solving
- Root-cause analysis
- Communication

## **Required Knowledge**

The individual needs to demonstrate knowledge of:

- Decision making
- Business communication
- Change management
- Competition
- Risk
- Net working
- Time management
- Leadership
- Factors affecting entrepreneurship development
- Principles of Entrepreneurship
- Features and benefits of common operational practices, e. g., continuous improvement (kaizen), waste elimination,
- Conflict resolution
- Health, safety and environment (HSE) principles and requirements
- Customer care standards
- Basic financial management
- Business strategic planning
- Impact of change on individuals, groups and industries
- Government and regulatory processes
- Local and international market trends

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- Product promotion standards
- Market and feasibility studies
- Government and regulatory processes
- Local and international business environment
- Relevant developments in other industries
- Regional/ County business expansion standards

## 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	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Identified Sources of personal and business finance as per financial procedures and standards</p> <p>1.2 Managed Personal finances as per financial procedures and standards</p> <p>1.3 Made Investment decisions as per financial procedures and standards</p> <p>1.4 Generated Business ideas and opportunities based on business procedure and standards</p> <p>1.5 Analysed business life cycle based on business procedure and standards</p> <p>1.6 Determined business innovative standards as per business principles</p> <p>1.7 Developed and presented a business plan as per regulatory framework.</p>
2. Resource Implications	<p>The following resources should be provided:</p> <p>2.1 Access to relevant workplace where assessment can take place</p> <p>2.2 Appropriately simulated environment where assessment can take place</p>
3. Methods of	This Competency may be assessed through:

Assessment	3.1 Practicals 3.2 Written tests 3.3 Oral questions 3.4 Third party report 3.5 Portfolio of evidence
4. Context of Assessment	Competency may be assessed: 4.1 On-the-job 4.2 In a simulated work environment
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

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## **COMMON UNITS OF COMPETENCY**

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## APPLY ANIMAL ANATOMY AND PHYSIOLOGY

**UNIT CODE:** 0511 441 06A

**TVET CDACC UNIT CODE:** AGR/CU/AP/CC/02/5/MA

### UNIT DESCRIPTION

This unit describes knowledge, skills and attitudes required to apply animal anatomy and physiology. It involves carrying out animal classification, applying morphology and physiology in animal production.

### ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements. <i><b>Bold and italicized terms are elaborated in the Range.</b></i>
1. Classify farm animals	1.1 <i><b>Mammals</b></i> are classified based on taxonomic principles of classification 1.2 <i><b>Aves</b></i> are classified based on taxonomic principles of classification 1.3 <i><b>Pisces</b></i> are classified based on taxonomic principles of classification 1.4 <i><b>Reptiles</b></i> are classified based on taxonomic principles of classification 1.5 <i><b>Amphibians</b></i> are classified based on taxonomic principles of classification 1.6 <i><b>Arthropods</b></i> are classified based on taxonomic principles of classification
2. Apply morphology in animal production	2.1 External features of animals are identified and illustrated based on animal classification 2.2 <i><b>Animal anatomical structures</b></i> are identified and illustrated based on animal classification 2.3 Relationship between animal structures is illustrated based on physiological functions

3. Apply animal physiological functions	<p>3.1 <b><i>Animal organ systems</i></b> are identified and illustrated based on animal morphology</p> <p>3.2 <b><i>Animal physiological processes</i></b> are identified and illustrated based on animal morphology</p> <p>3.3 3.3 Adaptations of <b><i>Animal body organs</i></b> are identified and illustrated based on animal morphology</p>
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## RANGE OF VARIABLES

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.

RANGE	VARIABLE
1. Mammals may include but not limited to:	<ul style="list-style-type: none"> <li>• Cattle</li> <li>• Rabbits</li> <li>• Sheep</li> <li>• Goats</li> <li>• Donkeys</li> <li>• Camel</li> <li>• Horses</li> </ul>
2. Aves may include but not limited to:	<ul style="list-style-type: none"> <li>• Chicken</li> <li>• Ducks</li> <li>• Guinea fowl</li> <li>• Geese</li> <li>• Turkey</li> </ul>
3. Pisces may include but not limited to:	<ul style="list-style-type: none"> <li>• Tilapia</li> <li>• Nile perch</li> <li>• Cat fish</li> <li>• Mudfish</li> <li>• Salmon fish</li> </ul>
4. Reptiles may include but	<ul style="list-style-type: none"> <li>• Crocodile</li> </ul>

RANGE	VARIABLE
not limited to:	<ul style="list-style-type: none"> <li>• Turtles</li> <li>• Lizards</li> <li>• Tortoise</li> <li>• Snake</li> </ul>
5. Amphibians may include but not limited to:	<ul style="list-style-type: none"> <li>• Frogs</li> <li>• Toad</li> <li>• Newts</li> <li>• Salamander</li> </ul>
6. Arthropods may include but not limited to:	<ul style="list-style-type: none"> <li>• Tick</li> <li>• Spider</li> <li>• Obsters,</li> <li>• Crabs</li> <li>• Mites</li> <li>• Centipedes</li> <li>• Millipedes</li> </ul>
7. Animal anatomical structures may include but not limited to:	<ul style="list-style-type: none"> <li>• Vertebral column</li> <li>• Skull</li> <li>• Rib</li> <li>• Forelimb</li> <li>• Hind limb</li> <li>• Pectoral girdle</li> <li>• Pelvic girdle</li> </ul>
8. Animal organ systems may include but not limited to:	<ul style="list-style-type: none"> <li>• Circulatory system</li> <li>• Digestive system</li> <li>• Reproductive system</li> <li>• Respiratory system</li> <li>• Excretory system</li> <li>• Nervous system</li> <li>• Lymphatic system</li> <li>• Cardiovascular system</li> </ul>