DEMONSTRATE THE KNOWLEDGE OF HUMAN ANATOMY

UNIT CODE: MED/OS/PM/CC/01/6/A

UNIT DESCRIPTION

This unit specifies the competencies required to establish human anatomy. It involves analyzing the scope of anatomy, identifying anatomical terminologies, demonstrating the knowledge of cell and cell division, identifying histological and cytological methods and demonstrating knowledge of types of tissues and their location.

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. Identify anatomical terminologies	1.1 Relevant ***anatomical and physiological terminology*** identified as per the anatomical position. 1.2 Relevant anatomical and physiological terminology applied to daily tasks as per the workplace procedures
2. Demonstrate the knowledge of cell and cell division	2.1 Cell types identified as per the workplace procedures 2.2 Components of a human cell identified as per the workplace procedures 2.3 Processes of cell division outlined as per the SOP 2.4 The composition of cytoplasm described as per the workplace procedures 2.5 Type of cell division identified as per the SOPs
3. Identify histological and cytological methods	3.1 Direct observation performed based on workplace procedures 3.2 Histochemical methods identified based on the material available 3.3 Chemical methods identified based on the material available 3.4 Physical methods identified based on the material available 3.5 ***Staining methods*** identified as per workplace procedures 3.6 Immunohistochemical methods identified based on the material available

	3.7 X-ray diffraction performed as per the workplace procedures
4. Demonstrate knowledge of types of tissues and their location	2.1 ***Tissue location*** outlined as per the workplace procedures 2.2 Embryonic tissues identified as per the tissue location 2.3 Types of tissues identified as per the tissue location

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.

Variables	**Range** **May include but not limited to:**
1. Anatomical and physiological terminology	• Proximal • Distal • Cranial • Anterior • Posterior
2. Staining methods	• Hematoxylin and eosin • Uranyl acetate and lead citrate
3. Tissue location	• Epithelial • Connective • Adipose • Bone • Nerve and muscle
4. Types of cell division	• Mitosis • Meiosis
5. Process of cell division	• Interphase • Prophase • Prometaphase • Anaphase telophase • Cytokinesis

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:

- Organizing skills
- Analytical skills
- Negotiation 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 skills and knowledge and range.

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Identified relevant anatomical and physiological terminology as per the anatomical position. 1.2 Applied relevant anatomical and physiological terminology to daily tasks as per the workplace procedures 1.3 Identified cell types as per the workplace procedures 1.4 Identified components of a human cell as per the workplace procedures 1.5 Outlined processes of cell division as per the SOP 1.6 Described the composition of cytoplasm as per the workplace procedures 1.7 Performed direct observation based on workplace procedures 1.8 Identified histochemical methods based on the material available 1.9 Identified chemical methods based on the material available 1.10 Identified physical methods based on the material available 1.11 Identified Staining methods as per workplace

	procedures 1.12 Identified immunohistochemical methods based on the material available 1.13 Performed X-ray diffraction as per the workplace procedures 1.14 Outlined tissue location as per the workplace procedures 1.15 Identified embryonic tissues as per the tissue location 1.16 Classified tissues as per the tissue location
2. Resource Implications	The following resources must be provided: 2.1 Functional Pharmaceutical technology system
3. Methods of Assessment	Competency may be assessed through: 3.1 Written tests 3.2 Third party reports 3.3 Oral questioning 3.4 Interview 3.5 Observation
4. Context of Assessment	Assessment could be conducted: • On-the-job • Off-the-job • During industrial attachment
5. Guidance information for assessment	Holistic assessment with related units in the sector