

Unit Title: Biology II
Level: Three
Credit Value: 9
GLH:
NOCN Unit Code: RH3/3/TE/009
QCA Unit Reference
Grading Descriptors: 1, 7

This unit has 6 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. "UNDERSTAND HUMAN PHYSIOLOGY, THE FEATURES, MECHANISMS OF ACTION AND CONTROL OF THE FOLLOWING: Understand Nutrition and Digestive System"	1.1. Outline dietary requirements in terms of carbohydrates, fat, protein, vitamins and minerals 1.2. Discuss the structure of the alimentary canal and its role in the mechanical and chemical breakdown of food 1.3. Describe the importance of hydrolytic enzymes in the digestion of carbohydrates, lipid and protein 1.4. Discuss the absorption of the products of digestion and their role in the body
2. Understand Cardiovascular System	2.1. Describe the structure of the heart and the events of the cardiac cycle 2.2. Explain how heart action is initiated and controlled 2.3. Discuss the structure of arteries; veins and capillaries in relation to their function 2.4. List the major components of blood and explain their functions in transport and defence 2.5. Describe the immunological aspects of transfusing blood
3. Understand the Respiratory System	3.1. Describe the structure and function of the respiratory system 3.2. Explain the mechanism of breathing and its nervous control 3.3. Describe the exchange and transport of oxygen and carbon dioxide

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
4. Understand the Excretory System	4.1. Define the term 'excretion' and explain the importance of removing the nitrogenous waste from the body 4.2. Describe the gross of structure of the kidney and detailed structure of the nephron, including associated blood vessels 4.3. Explain the functioning of the kidney in the control of water and metabolic waste levels from the body fluids
5. Understand Nervous System	5.1. Discuss the role of the nervous system in terms of functional control and contribution to homeostatic equilibrium 5.2. Outline the principal components of the nervous system 5.3. Describe the structure of sensory and motor neurones and outline their functions in a reflex arc 5.4. Explain the transmission of an action potential along myelinated neurone 5.5. Describe the structure of a synapse and explain how it functions
6. Understand Hormonal System and Homeostasis	6.1. Recognise the need for integration and control in organised systems 6.2. Explain the principles of homeostasis in terms of receptors, effectors and negative feedback 6.3. Explain what is meant by an endocrine gland, with reference to the islets of Langerhans in the pancreas 6.4. Explain how blood glucose concentration is regulated by insulin and glucagon

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ASSESSMENT INFORMATION

Guidance:

This grid gives details of the assessment activities to be used with the unit attached. Please refer to the NOCN Handbook for definitions of each activity and the expectations for assessment practice and evidence for moderation.

The assessment activities for this unit are indicated in the table below:

Key: P = Prescribed – this assessment method *must* be used to assess the unit.
O = Optional – this assessment method *could* be used to assess the unit.

Case study		Project	
Written question & answer/test/exam		Role play/simulation	
Essay		Practical demonstration	
Report		Group discussion	
Oral question and answer		Performance/exhibition	
Written description		Production of artefact	
Reflective log / diary		Practice file	

Signposting Key Skills

This unit offers clear opportunities for learners to provide evidence of achievement in Key Skills achievement in the following skill area/s:

Key Skill		Wider Key Skill	
Communication		Working with others	
Information Technology		Problem solving	
Application of Number		Improving Own Learning and Performance	

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Accredited End date:
Unit Sector/Subject area:
Grading descriptors:
Availability for Use:

Purpose and Aim of the Unit	Free Text
Restrictions on the Availability	Free Text or N/A
Additional Assessment Requirements	Free Text or N/A
Details of relationship between the Unit and the NOS	Free Text or N/A
Details of relationship between the Unit and Standards (not NOS)	Free Text or N/A
Endorsement of the Unit by	Free Text or N/A