

# Unit 8: Enzymes and Cells in the Human Body

<b>Level:</b>	<b>1</b>
<b>Unit type:</b>	<b>Optional (Life Sciences)</b>
<b>Credit value:</b>	<b>3</b>
<b>Guided learning hours:</b>	<b>27</b>

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## Unit summary

This unit aims to give learners knowledge and understanding of the importance of cells and enzymes in living organisms and how diagnostic enzymology can be used to support the diagnosis and treatment of individuals.

## Unit assessment requirements

Assessment tasks and activities must enable learners to produce valid, sufficient, authentic and appropriate evidence that relates directly to the learning outcomes and assessment criteria of the unit. Suitable forms of evidence for this unit include:

- written tasks such as reports, articles for journals, newsletters, leaflets, posters
- workbooks, work logbooks or learner diaries
- written or oral presentations
- projects
- oral question and answer

Observation records should not be used as the primary evidence of achievement for this unit, but can be used to supplement the more appropriate forms of evidence listed above or to provide sector contextualisation or evidence of how the learner has applied knowledge within their job role.

When devising the assessment activities, centres need to look closely at the verb used in each assessment criterion to ensure that learners can provide evidence with sufficient breadth and depth to meet the requirements. Centres need to produce assessment briefs for learners with clear instructions of what they are required to do.

## Learning outcomes and assessment criteria

To pass this unit, learners need to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements that the learner is expected to meet to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand the importance of cells in living organisms	1.1	Describe the structure of a typical human cell			
		1.2	Describe the function of the component parts of a typical human cell			
2	Know the importance of enzymes in life processes	2.1	Describe the structure and function of enzymes within the human body and provide specific examples			
		2.2	Explain the 'lock and key' hypothesis			
3	Understand higher organisation in the body	3.1	Define the terms 'tissue', 'organ', and 'organ system'			
		3.2	Describe the four main types of tissues common to the human body			
		3.3	Identify a minimum of ten organs and their location within the human body			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
4	Know the structure and functions of body systems	4.1	Describe the structure of at least four major body systems			
		4.2	Describe the function of at least four major body systems			
5	Know the definition of the terms diagnostic enzymology and how this can be used to support the diagnosis and treatment of patients	5.1	Define the term 'diagnostic enzymology'			
		5.2	Describe two routing diagnostic enzymology tests which are used as part of the initial diagnosis or care pathway of patients and how they function			
6	Know routine diagnostic enzymology laboratory tests	6.1	Explain the correct collection and storage method for a range of laboratory specimens			
		6.2	Describe the laboratory process for analysing a range of laboratory specimens			

Learner name: \_\_\_\_\_

Date: \_\_\_\_\_

Learner signature: \_\_\_\_\_

Date: \_\_\_\_\_

Assessor signature: \_\_\_\_\_

Date: \_\_\_\_\_

Internal verifier signature: \_\_\_\_\_

Date: \_\_\_\_\_

*(if sampled)*