# Unit 6: Health and Disease

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| **Level:** | **2** |
| **Unit type:** | **Optional (General)** |
| **Credit value:** | **3** |
| **Guided learning hours:** | **24** |

## Unit summary

This unit aims to give learners knowledge and understanding of how micro-organisms cause disease and of how the body's natural defence and antibiotics work to protect against disease. The unit also covers inherited genetic diseases and the medical applications of modern genetic technologies.

## 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 characteristics of micro-organisms | 1.1 | Explain the characteristics of disease-causing organisms | | | |
| | | 1.2 | Describe the routes of entry of micro-organisms in common infectious diseases | | | |
| | | 1.3 | Explain the mechanisms by which micro-organisms produce disease | | | |
| 2 | Understand the natural defence systems of the body | 2.1 | Explain the natural defence mechanisms of the body | | | |
| | | 2.2 | Differentiate between active and passive immunity | | | |
| | | 2.3 | Outline how the immune system works to protect the body against infection | | | |
| 3 | Understand the mode of action of antibiotics | 3.1 | Explain how antibiotics work | | | |

| Learning outcomes | | Assessment criteria | | Evidence type | Portfolio reference | Date |
|---|---|---|---|---|---|---|
| 4 | Understand how genetic diseases are inherited | 4.1 | Explain autosomal dominance | | | |
| | | 4.2 | Explain autosomal recessive inheritance | | | |
| | | 4.3 | Explain sex-linked inheritance | | | |
| | | 4.4 | Describe how to predict the inheritance of genetic disorders | | | |
| 5 | Understand the medical applications of current genetic technologies | 5.1 | Summarise the methods used in prenatal diagnosis of genetic diseases with chorionic villus sampling and amniocentesis | | | |

Learner name: _____ Date: _____

Learner signature: _____ Date: _____

Assessor signature: _____ Date: _____

Internal verifier signature: _____ Date: _____
(*if sampled*)