

Unit Title: Medical Physics
Level: Three
Credit Value: 9
GLH:
NOCN Unit Code: PE1/3/TE/001
QCA Unit Reference
Grading Descriptors: 1, 7

This unit has 5 learning outcomes.

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Understand the purpose and main features of a biomedical instrumentation system	1.1. Describe the purpose of a biomedical instrumentation system and identify its component parts 1.2. Design and use a simple experimental procedure to examine aspects of an instrumentation system
2. Understand the application of optical properties in medical diagnosis and treatment	2.1. Summarise the underlying principles and function of an endoscope 2.2. Evaluate the main features and uses of lasers as a medical tool
3. Understand the principles of ultrasound and its role in a medical context	3.1. Explain the principles and application of ultrasonics in diagnosis and therapy
4. Appreciate the use of electric potential and magnetism in diagnosis and treatment	4.1. Describe how electric potential is utilised in medicine 4.2. Summarise the main features and application of magnetic resonance imaging (MRI)
5. Understand the characteristics and applications of ionising radiations in the diagnosis and treatment of medical disorders	5.1. Evaluate the applications of nuclear medicine 5.2. Examine the use of x-rays in imaging and therapy 5.3. Critically compare the use of ionising radiations and ultrasound in medicine

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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 Start date:
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