

Access to H.E. National Programme Unit



Unit Title:	Medical Uses of Radioisotopes		
Graded Unit Code:	GA33PHY12	Ungraded Unit Code:	UA33PHY12
Pathway(s):	Health Science and Engineering Construction and the Built Environment		
Module(s):	Science for Health Physics		
Level:	Three	Credit Value:	3
Valid from:	1 st August 2014	Valid to:	31 st July 2024

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
2	Application of Knowledge
3	Application of Skills
7	Quality

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Understand the production of radioisotopes and their properties	1.1 Define the terms radioisotope and radiopharmaceutical
	1.2 Describe the production of radioisotopes for use in radiopharmaceuticals and imaging
	1.3 Explain the key properties of radioisotopes that are intended for medical use
2. Understand some of the techniques used in nuclear medicine and imaging	2.1 Explain the principles and use of the gamma camera

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LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
	2.2 Explain the use of radioisotopes in diagnostic imaging and give examples
	2.3 Explain the advantages in the use of radiopharmaceuticals for treatment as opposed to irradiation using external sources of radiation
3. Understand the effects of radiation on living cells and methods for monitoring radiation exposure	3.1 Describe the effects of different types of radiation on cells
	3.2 Distinguish between the somatic and hereditary effects of radiation
	3.3 Perform calculations involving absorbed dose, exposure, relative biological effect and effective dose