Unit 117: Working Practices in Physical Sciences

Level:	**4**
Unit type:	**Optional (Medical Physics)**
Credit value:	**5**
Guided learning hours:	**35**

Unit summary

In this unit, you will acquire the knowledge and skills to work as a Healthcare Science Associate within a medical physics department. You will be expected to build your professional practice and use critical reflection to review and improve your performance in the workplace and develop skills to promote continuous professional development.

All learners must complete all generic health and safety and mandatory training contextualised to own area of practice.

Unit assessment requirements

There are no specific assessment requirements for this unit. Please refer to the assessment strategy in *Annexe B*.

Additional information

All procedures must be undertaken in accordance with the departmental Standard Operating Procedures (SOPs).

AC1.1 includes:

- Control of Substances Hazardous to Health (COSHH) Regulations 2002
- information governance
- fire safety
- infection control.

AC2.2 includes:

communicating:

- scientific and engineering information at a level appropriate to the audience, including the public
- effectively within own area of work
- effectively within multidisciplinary team
- effectively and empathetically with individuals and the public:

    - listening
    - adapting communication to meet varying needs
    - overcoming barriers to understanding.

AC3.1 includes:

- the local and national regulatory incident identification and escalation process
- the process of equipment-related incident reporting to MHRA ad equipment manufacturers.

AC3.2 includes:

- Radiation Protection Advisor (RPA)
- Radiation Protection Supervisor (RPS)
    - the role of a manager with regard to radiation-related incident.

AC4.5 includes:

- infection control
- information governance
- fire safety.

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 **in own area of work and in accordance with Standard Operating Procedures (SOPs)** to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand how to work safely in a medical physics environment	1.1	Explain the health and safety policies, legislation and regulatory framework in own area of practice			
		1.2	Explain the quality-assurance processes underpinning safety and good practice in own area or practice			
		1.3	Know departmental local rules relating to Ionising Radiation Regulations 1999			
		1.4	Explain the procedures relating to Ionising Radiation (Medical Exposure) Regulations 2000 in own area of work			
		1.5	Explain personal responsibilities regarding processes and procedures within own area of practice			
		1.6	Explain the Environmental Permitting (England and Wales) Regulations 2016			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
2	Be able to communicate effectively within the healthcare environment	2.1	Explain the importance of effective communication skills within the healthcare environment			
		2.2	Communicate within the healthcare environment			
		2.3	Summarise complex information at an appropriate technical level for the intended audience orally and in writing			
3	Understand the incident reporting structure and roles and responsibilities of staff in own area of work	3.1	Evaluate the incident reporting process in own area of work			
		3.2	Explain the roles and responsibilities of medical physics staff			
		3.3	Evaluate the hospital organisation of radiological protection; radiation safety policies and local rules			
		3.4	Explain own position within the department and multidisciplinary teams			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
4	Be able to work professionally in a medical physics environment	4.1	Follow safe working practice within own area of work			
		4.2	Follow departmental local rules relating to Ionising Radiation Regulations 1999			
		4.3	Follow to organisational procedures relating to Ionising Radiation (Medical Exposure) Regulations 2000			
		4.4	Follow Environmental Permitting (England and Wales) Regulations 2016			
5	Be able to undertake routine administrative duties	5.1	Input information into patient or other information systems			
		5.2	Produce daily work lists			
		5.3	Book patient appointments			
		5.4	Extract information from patient or other information systems			

Learner name: _____ Date: _____

Learner signature: _____ Date: _____

Assessor signature: _____ Date: _____

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