

Module Details	
Module Title	Work-based Learning and Professional Practice 1 for Healthcare Scientists
Module Code	BIS4011-B
Academic Year	2022/3
Credits	20
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 4

Contact Hours	
Type	Hours
Lectures	20
Tutorials	30
Laboratories	10
Directed Study	140

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Full Year

Module Aims
<p>To introduce students to essential laboratory techniques in healthcare sciences and to facilitate the acquisition of basic personal transferable skills. To develop knowledge and understanding of the delivery of healthcare within the NHS, the role of the Healthcare science professional, the role of pathology and laboratory medicine and clinical governance. To facilitate clinical experiential learning and the development of work-based competencies as defined in the Health and Care Professions Council (HCPC) Standards of Proficiency and by Health Education England (HEE). To develop knowledge and understanding as applied to these competences. All of the above are focused on service need, patient care/pathway and continuous service improvement. The module combines and integrates both academic and work-based learning and has a strong patient and clinical focus.</p>

## Outline Syllabus

The syllabus is designed to provide the student with a strong science-based, patient-centred training in a healthcare science and is partly defined by the HCPC Standards of Proficiency and equivalent HEE standards. The education, training competencies relating to these standards will be demonstrated in a manner appropriate to your working environment and therefore your syllabus will be negotiated between you, your workplace clinical tutor and the course tutor. In this module you will acquire new competencies relating to appropriate Standards of Proficiency.

Study skills: techniques useful to optimise learning from lectures, seminars, tutorials and practical sessions; effective written communication; time management.

IT skills: computer-assisted learning, use of computer networks, Powerpoint presentation, essay writing, approaches to assessments and examinations.

Use of library facilities, learning styles and self-evaluation, action planning, reflective practice. Researching careers information, occupational and employer search and the Internet.

Presentations skills: how to reach your audience.

Working with others, theoretical concepts, negotiation and achieving objectives.

Laboratory skills: familiarisation with laboratory facilities, safety aspects, record keeping and report writing, instrument calibration and maintenance, concepts of accuracy and precision, sample preparation and dilutions.

Specific techniques used in biomedical sciences: cell counting methods (manual and automated), light spectrophotometry, balances, pH meter, micropipettes, centrifugation methods.

Learning Outcomes	
Outcome Number	Description
01	Discuss and evaluate essential practical techniques for healthcare sciences.
02	Review and reflect on the application of the competencies that you have achieved in your working environment with tutor support.
03	Perform essential laboratory techniques, produce scientific reports and communicate scientific information in an essay format. With some tutor support demonstrate competency in the range of HCPC Standards of Proficiency and equivalent HEE standards as agreed between you, your workplace tutor and course tutor. With tutor support carry out laboratory based tasks to an acceptable standard
04	Work in accordance with laboratory safety protocols, understand the health and safety requirements with respect to patient identification, sample type, protective clothing, hazard data sheets (including COSHH), equipment (HCPC standards 4, 3.2, 14, 15). This Clinical Experiential Learning will facilitate learning and achievement of stated outcomes.
05	Write reports, communicate orally and in writing.
06	Use IT for presentation and to perform numerical calculations.
07	Describe the principles of career management and working with others.
08	Describe the work of the healthcare science workforce and explain how it contributes to the patient pathways relevant to each area of their placement.
09	Explain the need to ensure that the needs and wishes of the patient are central to their care and explain the importance of developing and maintaining the patient-professional partnership.
10	Apply reflective practice.

Learning, Teaching and Assessment Strategy
<p>The module will be delivered as lectures and seminars to develop knowledge and understanding, computing workshops, laboratory classes and small group tutorials. Directed study will include experiential and theoretical learning of the range of competencies defined in the HCPC Standards of Proficiency and equivalent HEE standards and the compilation of evidence to demonstrate that competency. Reflection will be developed through the use of a learning log. All of the knowledge required will be assessed by coursework throughout the module. Formative assessments will be followed by summative assessment, culminating in five pieces of course work presented as a portfolio including a reflective statement on an area of practice and a work-based written assignment.</p>

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Clinical Assessment	HCPC/HEE standards Portfolio (pass/fail)	0%
Summative	Coursework - Written	5 pieces of course work - including a work-based written assignment. (2000 words)	100%

## Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>

*Please note:*

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*

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