



## ***BSc (Hons) Environmental Health (apprenticeship)***

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### **Programme Specification**

<b>1. Programme title</b>	BSc (Hons) Environmental Health (apprenticeship)
<b>2. Awarding institution</b>	Middlesex University
<b>3a Teaching institution</b>	Middlesex University, Hendon
<b>3b Language of study</b>	English
<b>4a Valid intake dates</b>	September
<b>4b Mode of study</b>	4 years full time apprenticeship
<b>4c Delivery method</b>	<input checked="" type="checkbox"/> On-campus/Blended <input type="checkbox"/> Distance Education
<b>5. Professional/ Statutory/ Regulatory body</b>	Chartered Institute of Environmental Health
<b>6. Apprenticeship standard</b>	Level 6 Environmental Health Practitioner
<b>7. Final qualification(s) available</b>	BSc (Hons) Environmental Health Cert HE Environmental Health
<b>8. Academic year effective from</b>	<b>2024-25</b>

#### **9. Criteria for admission to the programme**

Applicants are required to be employed in an environmental health apprenticeship role that will enable them to engage in work activities that are relevant to developing the knowledge, skills and behaviours required to operate as a Chartered Environmental Health Practitioner.

Evidence that you have capacity to work at level 4+ for example:

5 GCSEs (Grade 4 or above) or 5 GCEs (Grade C or above) including: English Language and Mathematics or passed in Level 2 in English and Maths

Individual employers will set the selection criteria for their Apprentices. Most candidates will have least one A level in a science or technology subject drawn from Chemistry, Biology, Human Biology, Physics, Geography, Geology, Environmental Science, Nutrition, Food Science or similar.

Relevant or prior experiential learning may also be considered as an alternative.

## **10.Aims of the programme**

This apprenticeship programme is vocationally orientated and designed to provide graduates with the skills necessary to analyse and evaluate environmental and health problems in scientific, technical and managerial terms. The programme is designed to produce high quality practitioners, whose skill profile ensures that they can be efficiently and effectively employed in a variety of settings including local authorities, Public Health agencies, commercial and industrial businesses, and consultancies. Graduates will have received a coherent body of theoretical and applied professional knowledge, transferable skill development, and a fundamental competency in the fields of environmental health that incorporate the ethical and moral dimensions of practice to ensure good, safe, inclusive and supportive Environmental Health Practitioners.

The teaching team has sought to develop a programme that is directly relevant to environmental health professionals working in, or aspiring to work, in a wide variety of contexts but which fosters the development of an informed, critical and imaginative attitude to professional practice. This has entailed the development of a programme that concentrates on the acquisition of knowledge, together with the skills to appraise and evaluate such theoretical knowledge in a practice context

The apprenticeship programme offers a balanced approach to managing environmental and health in a range of settings and is designed to meet the changing face of professional practice.

The apprenticeship programme aims, on successful completion, are to:

- a. Provide an integrated degree apprenticeship to enable apprentices/students to develop the knowledge, skills, professional behaviours and values specified in the nationally approved Environmental Health Practitioner Degree Apprenticeship Standard.
- b. Provide a multi-disciplinary understanding of the complexities of environmental and public health practice

- c. Provide a balance of scientific, technical, communication and legislative skills on which to base professional competence in relation to environmental health
- d. Enable students to identify, implement and evaluate appropriate control strategies to reduce harm to health
- e. Integrate leadership and influencing skills into professional practice
- f. Enable students to identify principal environmental health stressors and their impact on human health.
- g. Respond positively and flexibly to a changing environment and facilitate the development of problem-solving skills, resilience and agility
- h. Justify appropriate research methodology to underpin a research and development ethos within the profession.
- i. Evaluate and appraise new information, review evidence and critically analyse conflicting theories and assimilate best professional practice

## **11. Programme outcomes**

### **A. Knowledge and understanding**

On completion of this programme the successful student will have knowledge and critical understanding of:

1. Scientific, technological, evidence based, legislative and managerial principles that impact on Environmental Health practice.
2. Principle environmental and occupational stressors and vectors of diseases and how to control them
3. How social, cultural, emotional and psychological factors influence environmental health and the health of the public
4. Hazard analysis, risk assessment organisational culture and management.
5. Professional scope of practice including the complex political and corporate environment in which environmental health practitioners practice and the role of leadership, management of change and influencing skills within this practice
6. Legislation, application of relevant Acts, regulations, guidance and codes of practice, together with the technical and scientific knowledge to effect environmental health interventions in complex situations
7. The chemical, biological, physical, social and psychosocial stressors and their implications for health.
8. Comprehensive and detailed knowledge of environmental health intervention areas: Public Health; Food Safety; Health and Safety; Housing and Health; Environmental Protection
9. Critical awareness of business principles to enable effective advice and guidance to be provided in a range of business contexts.

### **Teaching/learning methods**

Students gain knowledge and understanding through engagement with concept videos, workshops, seminars, laboratory and practical sessions and through a variety of directed and self-directed learning activities e.g. group projects, case study analysis, critical literature appraisal laboratory-based learning and data analysis, portfolio development and use of real-world examples. Classroom conversations consolidate knowledge and seminars, and practical sessions embed understanding. The use of case studies (with examples co-created with employers) that reflect actual workplace environments are used to enable students to relate knowledge to practice situations in which they are likely to operate in the future. Use of e-learning strategies are also integrated into the teaching and learning strategies through the use of professional online data bases. Online learning is also used to encourage

independent study including links to external sources of information, podcast presentations and guidance notes which are available for download. Formative assessment, using interactive exercises and quizzes is designed to encourage interaction with learning materials

### **Assessment methods**

Formative assessment such as online learning exercises, peer evaluation, group activities and feedback of sample work will be used.

Students' knowledge and comprehension are assessed by case study portfolios, problem solving activities, coursework essays, management reports, reflection, case studies and presentations couple with the completion of an undergraduate dissertation and apprenticeship end point assessment

### **B. Skills**

On completion of this programme the successful student will be able to:

1. Develop audit skills and competently undertake investigations spanning the scope of practice of environmental health and make recommendations on the most appropriate course of action to employ where remedy is required
2. Apply knowledge of health and environmental stressors on which to develop solutions and appropriate environmental health interventions to a range of environmental health challenges
3. Carry out appropriate numerical calculations together with the ability to retrieve, collate and interpret information and data gained in variety of contexts and critically evaluate contradictory options to a given problem in complex and unpredictable situations.
4. Critically evaluate the results of an academic investigation and be able to extract data using a range of techniques appropriate to their chosen fields
5. Synthesise environmental health needs at the individual, neighbourhood and regional level and incorporate political, environmental and social contexts into decision making
6. Employ regulatory and non-regulatory controls, as appropriate, across the scope of practice and consider the role of partnership working in the development of this practice.
7. Demonstrate cultural competence, empathy and awareness of ethical considerations applicable to a range of environmental health issues to effect inclusive environmental health interventions
8. Effectively communicate through a range of different methods and to a range of audiences
9. Respond positively to changes within and to environmental health practice through adaptability, agility and resilience.
10. Demonstrate technological agility to support their curiosity in learning;
11. Reflect on personal and career development.

### **Teaching/learning methods**

Students learn skills through interactive participation in modules, case study analysis, laboratory based learning and data analysis exercises and experiments together with group work and workshops.

Students are encouraged to challenge and discuss concepts. Students must consider options and issues surrounding interventions.

### **Assessment methods**

**Cognitive (thinking) skills** are assessed by management reports, problem solving activities, essays, and oral examination and laboratory data analysis reports, development of a dissertation and through the apprenticeship end point assessment

**Practical skills** are assessed by presentation, problem solving exercises, apprenticeship end point assessment and oral examinations. The latter relates to the final year Practical Food Inspection as part of the accreditation of the award with the CIEH.

### **Graduate competencies**

Graduate competencies are integrated into formative and summative assessment. The Professional Practice Preparation module seeks to enhance technological ability, collaboration and innovation in practice and problem solving and delivery. The Communications and Public Health Delivery module seeks to underpin communications, empathy and inclusion to tackle public health as well as supporting resilience and adaptability. Leadership and influence is specifically targeted in the Interventions in occupational Health and Safety module. These skills are developed through written reports, case studies, presentations, and portfolio writing. Skills may also be assessed through online exercises and presentations.

## **12. Programme structure (levels, modules, credits and progression requirements)**

### **12.1 Structure of the programme**

The apprenticeship in Environmental Health is comprised of 360 credits of learning. In each year you will take up to 120 credits of learning and this will enable you to complete your award as a full-time student in 4 years. Modules are delivered as 30 credit modules studied over 12 weeks in either semester 1 or 2. Students who exit the programme having successfully passed 120 credits at year 1 will exit with a certificate of higher education: environmental health

#### **Year 1**

##### **Semester 1**

BIO1040 Sciences of Environmental and Public Health (30c)

BIO1175 Foundations of Environmental Science (30c)

##### **Semester 2**

BIO1280 Environmental and Public Health Stressors (30c)  
BIO1025 Introduction to Law and Health Protection (30c)

## **Year 2**

Semester 1

BIO2233 Food Safety and Control (30c)

PRS2250 Housing standards and interventions (30c)

Semester 2

BIO2050 Environmental Protection (30c)

## **Year 3**

Semester 1

BIO3006 Interventions in occupational health and safety (30c)

BIO3305 Food Inspection, Food Standards and Fraud (30c)

Semester 2

CHE2106 Research Methods and Science Innovation (30c)

PRS3460 Communications and Public Health Interventions. (30c)

## **Year 4**

PRS3988 (30c) Dissertation

BIO3240 Professional Practice Preparation (including the End Point Assessment) (30c)

## **12.2 Levels and modules**

Level 4

### **Compulsory**

Students must take all of the following:

BIO1175 Foundations of Environmental Science

BIO1025 Introduction to Law and Health Protection

BIO1040 Sciences of Environmental and Public Health

BIO1280 Environmental and Public Health Stressors

### **Optional**

none

**Progression requirements**

Students must pass at least 90 credits to progress to Level 5. *To achieve Honours, failed credit will need to be repeated.*

**Level 5****Compulsory**

Students must take all of the following:

BIO2233 Food Safety and Control

CHE2106 Research Methods and Science Innovation

PRS2250 Housing Standards and Interventions

BIO2050 Environmental Protection

**Optional**

None

**Progression requirements**

Students must have passed at least 210 credits to progress to Level 6.

To achieve Honours, failed credit will need to be repeated.

**Level 6****Compulsory**

BIO3006 (30c) Interventions in Occupational Health and Safety

PRS3988 Dissertation

BIO3240 Professional Practice Preparation

PRS3460 Communications and Public Health Interventions.

BIO3305 Food Inspection, Food Standards and Fraud

**Optional**

None

**Progression requirements**

Students must pass all modules (330 credits), except BIO3240, in order to be assessed as ready to enter the gateway to the apprenticeship end point assessment.

**12.3 non-compensable modules**

**Module level/ Module code:** Level 4/ All modules, Level 5/ BIO2233, BIO2050, PRS2250, Level 6/ All modules

### **13. Information about assessment regulations**

This programme will run in line with general University regulations: <https://www.mdx.ac.uk/about-us/policies> except in relation to compensation: see section 12.3 above in relation to non-compensable modules.

This programme complies with the nationally approved integrated Degree Apprenticeship

Assessment Plan, which can be found at <https://www.instituteforapprenticeships.org/apprenticeshipstandards/>

environmental-health-practitioner. As an integrated Degree Apprenticeship there is no requirement for a separate End-point Assessment (EPA) to complete the apprenticeship. The

requirements for EPA are built into the final stage modules of the Bachelor's degree programme.

The end-point assessment is specifically designed to test the professional competence of the apprentice to undertake the Environmental Health Practitioner job role. The gateway requirement to being able to take the integrated EPA is:

Completion of all the programme modules

- Successful completion of the module assessments
- Achievement of English and Mathematics at level 2 if not achieved prior to the apprenticeship.

The integrated EPA will comprise of the following two components:

1. A Final Written exam
2. A Professional Discussion

The combination of the final work based project and the panel interview will fully test that the apprentice meets all requirements of the standard.

### **14. Placement opportunities, requirements and support (if applicable)**

As an apprentice you will be employed within an environmental health setting. You will have a mentor at your workplace who will represent the local authority at your Tripartite Review. You will have a number of Tripartite Reviews each year where the university, your employer and you can discuss your progress within your apprenticeship programme.

### **15. Future careers / progression**



On completion of your apprenticeship, you will have developed knowledge, skills and behaviours covering all aspects of professional practice. You will therefore be able to offer employers broad underpinning knowledge and skills. The award has been matched to the needs of a variety of stakeholders and, in particular, operational practice of future environmental and health agencies.

The degree is accredited by the Chartered Institute of Environmental Health (CIEH) and successful completion of the apprenticeship allows students to complete professional qualification pathways that qualify them as Environmental Health Practitioners and demonstrate their skills and competence in professional practice. Those that meet the CIEH professional requirements will be listed on the CIEH professional register.

Students also have the opportunity to continue their academic careers at Middlesex University on the MSc Occupational Safety Health Management awards, MSc Public Health or MSc Sustainability and Environmental Management further enhancing their future career development and opportunities. In addition, the university is expanding the range of doctoral opportunities, both work based and PhDs.

### **16. Particular support for learning**

The University provides a number of points of support for students:

Academic support is provided by the Learning Enhancement Team who advise students on literacy, English language, numeracy and exam technique for example. The Disability and Dyslexia Support Service offers support to students with these needs during their time at Middlesex.

For apprenticeship programmes students are also supported through the online system APTM

There is an on-line learning platform to provide module and programme support.

Sheppard Library provides a wide range of physical and online resources and study spaces

Students will be supported with their coursework and subject understanding in small group tutorials or on a 1:1 basis. Student Learning Assistants provide peer-learning support and can assist students with their work in class, as well as through 1:1 or small group discussion.

All students will have a named Academic Advisor each year who will provide programme support throughout their programme.

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## **17. HECos code(s) 101317**

**18. Relevant QAA subject benchmark(s)** Health Studies (2019); Earth Sciences, Environmental Sciences and Environmental Studies (2023)

## **19. Reference points**

CIEH Professional Standards Framework

QAA subject benchmarks

QAA Framework for Higher Education Qualifications (2024)

QAA Higher Education in Apprenticeships: Characteristics Statement (2022)

Middlesex University Regulations

Middlesex University Regulations for Apprenticeships

Middlesex University Learning and Quality Enhancement Handbook

Middlesex University 2031 Learning Framework

## **20. Other information**

Indicators of quality:

- Progression statistics and good awards
- Students' feedback
- External examiners communication, both formal reports and other engagement
- Student employability

#### Academic Professional Panel

Please note programme specifications provide a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve if they take full advantage of the learning opportunities that are provided. More detailed information about the programme can be found in the rest of your programme handbook and the university regulations.

### **21. Curriculum map for BSc Environmental health (apprenticeship)**

This section shows the highest level at which programme outcomes are to be achieved by all graduates, and maps programme learning outcomes against the modules in which they are assessed.

#### **Programme learning outcomes**

##### **Knowledge and understanding**

A1 Scientific, technological, evidence based, legislative and managerial principles that impact on Environmental Health practice.

A2 Principle environmental and occupational stressors and vectors of diseases and how to control them

A3 How social, cultural, emotional and psychological factors influence environmental health and the health of the public

A4 Hazard analysis, risk assessment organisational culture and management.

A5 Professional scope of practice including the complex political and corporate environment in which environmental health practitioners' practice and the role of leadership, management of change and influencing skills within this practice

A6 Legislation, application of relevant Acts, regulations, guidance and codes of practice, together with the technical and scientific knowledge to effect environmental health interventions in complex situations.

A7 The chemical, biological, physical, social and psychosocial stressors and their implications for health

A8 Comprehensive and detailed knowledge of environmental health intervention areas; Public Health; Food Safety; Health and Safety; Housing and Health; Environmental Protection

A9 Critical awareness of business principles to enable effective advice and guidance to be provided in a range of business contexts.

##### **Skills**

B1 Develop audit skills and competently undertake investigations spanning the scope of practice of environmental health and make recommendations on the most appropriate course of action to employ where remedy is required

B2 Apply knowledge of health and environmental stressors on which to develop solutions and appropriate environmental health interventions to a range of environmental health challenges

B3 Carry out appropriate numerical calculations together with the ability to retrieve, collate and interpret information and data gained in variety of contexts and critically evaluate contradictory options to a given problem in complex and unpredictable situations

B4 Critically evaluate the results of an academic investigation and be able to extract data using a range of techniques appropriate to their chosen fields

B5 Synthesise environmental health needs at the individual, neighbourhood and regional level and incorporate political, environmental and social contexts into decision making

B6 Employ regulatory and non-regulatory controls, as appropriate, across the scope of practice and consider the role of partnership working in the development of this practice.

B7 Demonstrate cultural competence, empathy and awareness of ethical considerations applicable to a range of environmental health issues to effect inclusive environmental health interventions

B8 Effectively communicate through a range of different methods and to a range of audiences

B9 Respond positively to changes within and to environmental health practice through adaptability, agility and resilience.

B10 Demonstrate technological agility to support their curiosity in learning

B11 Reflect on personal and career development

Programme outcomes A1 A2 A3 A4 A5 A6 A7 A8 A9 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11

Highest level achieved by all graduates 6

Module Title	Module Code by Level	A1	A2	A3	A4	A5	A6	A7	A8	A9	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11
Sciences of Environmental and Public Health	BIO1040	X										X								X	X
Foundations of Environmental Science	BIO1175	X	X					X				X	X							X	
Introduction to Law and Health Protection	BIO1025	X		X		X							X								
Environmental and Public Health Stressors	BIO1280	X	X	X	X			X				X								X	
Food Safety and Control	BIO2233		X		X		X	X	X		X	X				X					
Research Methods and Science Innovation	CHE2106									X			X	X							
Housing Standards and Interventions	PRS2250		X	X	X	X	X	X	X		X	X			X	X	X	X	X		
Environmental Protection	BIO2050		X		X	X	X	X	X		X	X	X			X					
Interventions in Occupational Health and Safety	BIO3006		X		X	X	X	X	X	X	X	X				X					









Module title	Module Code by Level	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B 9
Sciences of Environmental and Public Health	BIO1040 (L4)									
Foundations of Environmental Science	BIO1175 (L4)									
Environmental and Public Health Stressors	BIO1280 (L4)									
Introduction to Law and Health Protection	BIO1025 (L4)									
Food Safety and Control	BIO2233 (L5)									
Housing standards and interventions	PRS2250 (L5)									
Environmental Protection	BIO2050 (L5)									
Interventions in occupational health and safety	BIO3006 (L6)									
Food Inspection, Food Standards and Fraud	BIO3305 (L6)				x					
Research Methods and Science Innovation	CHE2106 (L6)									
Communications and Public Health Interventions	PRS3460 (L6)								x	
Dissertation	PRS3988 (L6)		x	x		x	x			
Professional Practice Preparation (including the End Point Assessment)	BIO3240 (L6)	x	x	x	x	x	x	x	x	x

**Apprenticeship knowledge, skills, behaviours and Evaluation – where and how is evidence of this KSB developed and assessed (module(s) and task)**

Knowledge	Module	Task
K1 - The complex political and corporate environment in which the organisation operates and own role in this	BIO1025 Introduction to Law and Health Protection	Test, case study Presentation, case study

	PRS3460 Communications and Public Health Interventions	
K2 - The legislative framework and technical application of relevant Acts, regulations, guidance and codes of practice eg. the Environment Act, Environmental Protection Act, the Health and Safety at Work Act, Public Health Acts, Building Act, Food Hygiene Regulations, Housing Acts, Police and Criminal Evidence Act, data protection legislation, antisocial behaviour legislation etc.	BIO1025 Introduction to Law and Health Protection BIO2233 Food Safety and Control BIO2050 Environmental Protection BIO3006 Interventions in occupational health and safety PRS2250 Housing standards and interventions	Test, case study Case study, exam Lab portfolio Management report Inspection report
K3 - The role of the environmental health service in leading on and contributing to the wider public health agenda and the health, safety and wellbeing of local communities	BIO1280 Environmental and Public Health Stressors PRS2250 Housing standards and interventions PRS3460 Communications and Public Health Interventions	Presentation, case study Problem solving Blog, written summary Inspection report Health Campaign design
K4 - The procedures and practices involved with carrying out evidence and risk-based inspections, audits and investigations	BIO1025 Introduction to Law and Health Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study Portfolio
K5 - The full range of statutory and non-statutory interventions to control, mitigate and reduce risk	BIO1025 Introduction to Law and Health Protection BIO2233 Food Safety and Control BIO2050 Environmental Protection BIO3006 Interventions in occupational health and safety	Case study Case study, exam Lab portfolio Management report Inspection report Blog, written summary Portfolio Practical exam and viva

	PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment) BIO3305 Food Inspection, Food Standards and Fraud	
K6 - The procedures and practices involved in taking a range of enforcement actions	BIO1025 Introduction to Law and Health Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study Portfolio
K7 - The procedures and practices involved with granting permits, licences and authorisations	BIO2050 Environmental Protection PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio Inspection report Portfolio
K8 - How to liaise and communicate appropriately with a variety of sources including clients, partner agencies, the public and the media	BIO3240 Professional Practice Preparation (including the End Point Assessment) PRS3460 Communications and Public Health Interventions	Portfolio Health Campaign design
K9 - The relevance and interpretation of complex/scientific reports, technical guidance, analytical data, research and other forms of evidence	BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science BIO2050 Environmental Protection CHE2106 Research Methods and Science Innovation	Test, Problem solving Data analysis Portfolio exercises Portfolio Project and viva

	BIO3240 Professional Practice Preparation (including the End Point Assessment) PRS3988 (30c) Dissertation	
K10 - The concepts of hazard analysis and risk assessment and their practical application in environmental health	BIO1025 Introduction to Law and Health Protection BIO2233 Food Safety and Control BIO2050 Environmental Protection BIO3006 Interventions in occupational health and safety PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study Case study, exam Lab portfolio Management report Inspection report Portfolio
K11 - Concepts relating to the natural world, its key biological and ecological systems and how this may affect and be affected by humans; sustainability of resources and their impact on climate and health	BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science BIO1280 Environmental and Public Health Stressors BIO1040 Sciences of Environmental and Public Health BIO2050 Environmental Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Test, Problem solving Data analysis Presentation, case study Problem solving Blog, written summary Lab portfolio Portfolio Portfolio

K12 - The human world and communities; human made structures, industry and services	BIO1280 Environmental and Public Health Stressors PRS2250 Housing standards and interventions PRS3460 Communications and Public Health Interventions	Presentation, case study, problem solving Blog, written summary Inspection report Health campaign design
K13 - How social, cultural, emotional and psychological factors influence environmental health and the health of the public	BIO1280 Environmental and Public Health Stressors PRS3460 Communications and Public Health Interventions	Presentation, case study Health campaign design
K14 - Concepts of health and disease and how these are measured and assessed	BIO1280 Environmental and Public Health Stressors BIO3240 Professional Practice Preparation (including the End Point Assessment)	Presentation, case study, problem solving Portfolio
K15 - Environmental stressors and how they impact on different environments and communities	BIO1025 Introduction to Law and Health Protection BIO1280 Environmental and Public Health Stressors PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study Presentation, case study, problem solving Inspection report Portfolio
K16 - The impact of lifestyle choices on the health of individuals and communities	BIO1280 Environmental and Public Health Stressors PRS2250 Housing standards and interventions PRS3460 Communications and Public Health Interventions	Problem solving Blog, written summary Inspection report Health campaign design

K17 - The principles of environmental microbiology	BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science BIO2233 Food Safety and Control BIO3240 Professional Practice Preparation (including the End Point Assessment)	Test, Problem solving Data analysis Case study Portfolio
K18 - Theories of epidemiology of a range of communicable and non-communicable diseases and their practical application in environmental health	BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science  BIO1280 Environmental and Public Health Stressors  BIO3240 Professional Practice Preparation (including the End Point Assessment)	Problem solving Presentation, case study Data analysis Problem solving Blog, written summary Portfolio
K19 - Anatomy and physiology and how human function can be affected by biological, toxicological and mechanical effects	BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science BIO3240 Professional Practice Preparation (including the End Point Assessment)	Test Data analysis Portfolio
K20 - The concepts and principles of leadership and application to own practice	PRS3460 Communications and Public Health Interventions	Presentation, case study

K21 - A range of quantitative and qualitative data gathering methods and how to appraise and select the optimum method	BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science CHE2106 Research Methods and Science Innovation PRS3988 (30c) Dissertation	Test Data analysis, project proposal Project and viva
K22 - The limits of own scope of practice and when to seek advice from others	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
K23 - Principles of safeguarding and how to apply them to self and others	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
K24 - The principles of collecting evidence for monitoring, investigations and enforcement purposes including seizure and detention powers, formal sampling procedures and exhibit referencing	BIO1025 Introduction to Law and Health Protection BIO2233 Food Safety and Control BIO3006 Interventions in occupational health and safety BIO3240 Professional Practice Preparation (including the End Point Assessment)	case study Case study, exam Management report Portfolio
K25 - Techniques to investigate and resolve complaints	BIO1025 Introduction to Law and Health Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study Portfolio

<b>Skills</b>	<b>Module</b>	<b>Task</b>
S1 - Provide specialist, professional and technical environmental health advice and guidance to a range of stakeholders such as residents, businesses, property owners, government agencies and partners	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S2 - Plan, undertake and lead inspections, audits and other forms of investigations across the breadth of environmental health matters	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S3 - Evaluate applications and grant relevant licences and permits eg. environmental permits, HMOs, caravan sites, skin piercing, tattooists etc	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S4 - Negotiate with and influence a range of stakeholders in relation to a range of environmental health matters	BIO3240 Professional Practice Preparation (including the End Point Assessment) PRS3460 Communications and Public Health Interventions	Portfolio Health campaign design
S5 - Identify, evaluate and communicate environmental health risks and risk management solutions to a range of stakeholders	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S6 - Ensure all activities are undertaken in accordance with relevant legislation, guidance and codes of practice	BIO2233 Food Safety and Control BIO2050 Environmental Protection BIO3006 Interventions in occupational health and safety PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study, exam Lab portfolio Management report Inspection report Portfolio, Written exam & Professional discussion
S7 - Infer and apply a range of legislation related to environmental health, eg. the Environment Act, Environmental Protection Act, the Health and Safety at Work Act, Food Safety Act, Housing Act, Public Health Act, Police and Criminal	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio Written exam & Professional discussion



Evidence Act, data protection legislation, anti-social behaviour legislation etc		
S8 - Employ a range of research, analytical and problem-solving techniques to resolve environmental health issues through creative and critical thinking, devising practical solutions and applying problem solving strategies	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S9 - Critically evaluate and analyse evidence and information	BIO2050 Environmental Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Lab portfolio Portfolio
S10 - Formulate judgements and decisions based on the evidence available and applied knowledge eg. on acceptable levels of pollution emissions, water data, acceptable levels of noise etc	BIO2050 Environmental Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Lab portfolio Portfolio
S11 - Manage objective measurement and analysis of scientific information to determine the appropriate course of action eg. noise measurement, air emissions etc	BIO1025 Introduction to Law and Health Protection BIO1040 Sciences of Environmental and Public Health BIO1175 Foundations of Environmental Science BIO2050 Environmental Protection BIO3240 Professional Practice Preparation (including the End Point Assessment)	Case study Test Data analysis Lab portfolio Portfolio
S12 - Appraise, implement and communicate relevant interventions eg. enforcement actions	BIO1025 Introduction to Law and Health Protection BIO2233 Food Safety and Control BIO2050 Environmental Protection	Case study Exam Lab portfolio Management report Inspection report Written exam & Professional discussion

	BIO3006 Interventions in occupational health and safety PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment)	
S13 - Produce accurate records and reports and where appropriate, recommend interventions, including the collection and handling of evidence with a view towards legal proceedings	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S14 - Assess and deal effectively with difficult and confrontational situations	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S15 - Participate in health promotional activities in high priority environmental health areas eg. shisha, smoking, obesity, food safety etc	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S16 - Implement effective decision making, exercising discretion, initiative and independence within the scope of own role	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S17 - Communicate and influence effectively with a diverse range of stakeholders including spoken and written communication skills, presentation skills, giving advice and guidance / mediating / negotiating and persuading, handling private and sensitive information (eg. data protection)	PRS3460 Communications and Public Health Interventions	Health campaign design
S18 - Use a range of standard IT packages to undertake for example, word processing activities, produce reports and input / analyse data	CHE2106 Research Methods and Science Innovation BIO3240 Professional Practice Preparation (including the End Point Assessment)	Data analysis, project proposal Portfolio
S19 - Work as part of a multi-disciplinary and/or multiorganisational team and collaborate to achieve successful outcomes	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S20 - Lead activities relating to environmental health matters	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio

S21 - Carry out sampling and collect evidence for monitoring, investigations and/or enforcement purposes in accordance with legislation and current guidance	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio
S22 - Examine and assess compliance with conditions	BIO2050 Environmental Protection PRS2250 Housing standards and interventions BIO3240 Professional Practice Preparation (including the End Point Assessment) BIO3305 Food Inspection, Food Standards and Fraud	Lab portfolio Inspection report Portfolio Practical exam and viva
S23 - Plan, organise and prioritise workload to meet deadlines	BIO3240 Professional Practice Preparation (including the End Point Assessment) PRS3988 (30c) Dissertation	Portfolio Project and viva

<b>Behaviours</b>	<b>Module</b>	<b>Task</b>
B1 - Be positive, creative and innovative within complex environments in professional practice	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio, Written exam Professional discussion
B2 - Be adaptive to a changing operational and political environment	PRS3988 (30c) Dissertation BIO3240 Professional Practice Preparation (including the End Point Assessment)	Project and viva Written exam & Professional discussion
B3 - Be collaborative with a diverse range of stakeholders	PRS3988 (30c) Dissertation BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio Project and viva Professional discussion
B4 - Be self-motivated and committed to leading own professional development	BIO3305 Food Inspection, Food Standards and Fraud BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio Practical exam Professional discussion

B5 - Be assertive in appropriate situations to communicate and influence effectively	PRS3988 (30c) Dissertation BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio Project and viva Written exam & Professional discussion
B6 - Show discretion in professional practice	PRS3988 (30c) Dissertation BIO3240 Professional Practice Preparation (including the End Point Assessment)	Project and viva  Portfolio, Written exam & Professional discussion
B7 - Be resilient and self-aware	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio, Written exam & Professional discussion
B8 - Operate with dignity and respect, maintaining impartiality/fairness/equality	PRS3460 Communications and Public Health Interventions BIO3240 Professional Practice Preparation (including the End Point Assessment)	Health campaign design Written exam & Professional discussion
B9 - Champion own organisation's values and goals	BIO3240 Professional Practice Preparation (including the End Point Assessment)	Portfolio, Written exam & Professional discussion