M.Sc. Occupational Health, Safety and Environmental/Well-Being Management Programme Specification

1. Programme title	MSc Occupational Health, Safety and Environmental Management and MSc Occupational Health, Safety and Well-Being Management
2. Awarding institution	Middlesex University
3. Teaching institution	Middlesex University
4. Programme accreditation by	Institution of Occupational Safety and Health (IOSH)
5. Final qualification	MSc/PGDip Occupational Health, Safety and Environmental Management and MSc/PGDip Occupational Health, Safety and Well-Being Management
6. Year of validation/ year of ammendment	2018-19/ 2022-23
7. Language of study	English
8. Mode of study	Full and Part Time

9. Criteria for admission to the programme

Good honours degree, 2.2 or above or equivalent qualification in any appropriate discipline or Professional Diploma (level 6) e.g. NEBOSH or British Safety Council. Equivalent work based experience may be considered at the discretion of the programme team and may require submission of a piece of work.

Overseas students must demonstrate English language skills to IELTS 6.5 or equivalent with a minimum of 6.0 in all components

10. Aims of the programme

The programme aims to:

Provide students the theoretical skills to enable them to anticipate, recognise, measure, evaluate, apply and communicate solutions to minimise the risks arising from occupational health and safety conditions coupled with specialism skills in environmental or occupational well-being management.

Facilitate development of competence in future practice through alignment with professional standards in occupational safety and health and specifically those from the Institution of Occupational Safety & Health and their requirements for Initial Professional Development.

Provide a critical awareness of the inter-relationship between organisational culture, safety culture/climate and translation to individual psychology and behaviour in relation to health and safety together with the skills to lead change and understand the role of leadership, communication, safety philosophy and followership within the workplace

Develop the ability to critically appraise strategic and operational risk, as it relates to occupational health and safety, in a variety of complex occupational situations, including high risk industries, multisite and internationally operating organisations and design and implement management solutions to mitigate these risks.

Develop a coherent body of theoretical and applied professional knowledge, coupled with criticality in application to practice in an international operations and trade context.

Foster the ability to integrate theoretical/practice based research and scientific data, with technical and managerial skills and interpretation of legislative and regulatory approaches and provisions from a range of locales so as to create practicable and applicable safety and health related solutions in complex settings.

Develop refined communication skills providing the ability to communicate using a variety of media to specialist, senior executives and non-specialist on matters pertaining to occupational health and safety matters.

Students will cultivate professional skills in the assessment/evaluation and in the provision of advice, guidance and solutions to the management of environmental impacts of businesses in a range of contexts.

Undertaking a major piece of research at masters' level involving the design, planning, implementation and critical evaluation of an area of occupational safety and health using appropriate methodologies, data collection and evaluation.

The professional body for Occupational Safety & Health (IOSH) have provided high level learning objectives from which the programme outcomes of this MSc have been aligned. These are included here and have been embedded with the programme outcomes below.

a) deal with highly complex occupational safety and health issues, make sound judgments using the evidence available and then communicate their decisions to specialist and non-specialist audiences
b) act autonomously to plan and implement tasks in a professional way
c) advance their knowledge and understanding of risks and risk management as applied to occupational safety and health
d) show a comprehensive understanding of research techniques and use original thought to increase and apply their knowledge.

11. Programme outcomes

A. Knowledge and understanding

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

1. The inter-relationship of legislative, regulatory, organisational, technical, cultural and scientific perspectives as applied to occupational health and safety in a wide range of complex situations and in a range of regions and locales
2. The influence and importance of the overarching organisational culture, coupled with a wide range of management and leadership strategies to create, implement, review use and control safe and healthy systems of work.
3. Hazard analysis, risk management, risk modelling, risk acceptability risk communication and risk decision making
4. Workplace, work-equipment, chemical physical, and biological hazards in the workplace, together with their potential to act synergistically to impact detrimentally on health coupled with knowledge of approaches to the assessment and management of such hazards
5. Strategic, organisational and personal factors that influence risk perception, behaviour and risk response.
6. The role of evidence and evidenced based practice and approaches, techniques available to undertake valid appraisal of research outputs.
7. Regulation, legislation and regulatory approaches used within the occupational safety and health setting.

For the Environmental management pathway

8. The core components of environmental management systems and their role in pollution prevention together with the role of legislation and environmental regulators
9. The risk arising from common commercial and industrial processes and the application of Best Available Technology (BAT) in the context of industrial environmental management and control.

For the Well-Being management pathway

8. The risk arising from “unhealthy” workplaces and the application of a range of tools to measure, evaluate and control such risks
9. The inter-relationship between active communication and consultation, active listening, positive culture and leadership in the creation of health workplaces
10. Research approaches, techniques and methodology for occupational health and safety related research

Teaching/learning methods

Students gain knowledge and understanding through engagement with lectures, seminars (either virtual or on campus), and through a variety of directed and self- directed learning activities e.g. group projects, case study analysis, critical literature appraisal. The use of case studies 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 is also integrated into the teaching and learning strategies through the use of professional on line data bases. Online learning will also be used to encourage independent study and formative assessment through the use of interactive exercises and quizzes, links to external sources of information and Podcast presentations and lecture notes are available to the student for downloading.

Assessment Method

Students' knowledge and understanding is assessed by a combination of coursework, and case studies designed to reflect current working, cultural and physical environments likely to be experienced by students in their future professional activities. Presentations (either online or on campus) will also be used as a formative assessment with written feedback given rapidly to progress learning and understanding.

In order to gain the award title in Well-Being your project topic must focus on a topic related to this field and likewise to gain the award title in environment your project must be focused in this area.

B. Skills

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

1. Select, apply and evaluate, autonomously, a range of inspection and investigation techniques
2. Evaluate the design and results of audits/investigations
3. Integrate internal and external evidence to be able to develop action plans and programmes for safety and health improvement.
4. Make decisions, recommendations and articulate solutions on a proposed course of action in relation to OHSE problems to managers, safety representatives, enforcement bodies and wider community in a professional manner and using a range of media solutions
5. Critically appraise legislation, guidance and complex data and successfully communicate their implications to a wide range of personnel and audiences
6. Critically and continually reflect on own practice, and that of others and select from a range of options the best mechanism to influence others to achieve best practice
7. Problem-solve at both an individual problem level and within the context of a range of problems, and prioritise a range of options and select appropriate communication formats to convey solutions.
8. Critically appraise risk perception influences of human and organisational behaviour, risk management and risk analysis
9. Work within teams to problem solve and improve safety and health practice and act as a team leader and specialist adviser to improve safety and health practice

10. Select and manage information in relation to safety and health

For the Environmental Management Pathway

11. Exhibit applied competence in the use of management techniques in the assessment, evaluation and solution giving to commercial environmental aspects of environmental performance improvement.

For the Well-Being Pathway

11. Exhibit applied competence in the use of a range of tools to measure and evaluate Well-Being at work and in the application of solutions to a range of workplace stressors

12. Plan and construct a substantial academic investigation within clear ethical dimensions, and be able to conduct thorough analysis and thereafter be able to effective convey the findings.

Teaching/learning methods

Students learn cognitive and practical skills through interactive participation in modules, case study analysis of practical workplace problems relevant to current working practices, group and mini seminars and workshops will help students articulate ideas, reflect on their understanding and learn from others in a constructive environment. E-learning facilities available on My Learning plus other such interactive exercises and quizzes will help develop cognitive skills.

The modules have been designed to encourage engagement with real world examples to identify a range of hazardous working environments.

Assessment Method

Students' cognitive skills are assessed by essay, case study and assignment, and the research proposal and research project.

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

12.1 Overall structure of the programme

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

12.1 Overall structure of the programme

Full Time

Sept – Jan

- Research Methods and MSc Project (60 Credits) (Taught Module) PRS4489
- Factors affecting risk and strategic risk intervention (15 Credits) PRS4434
- Management of workplace health and safety (15 credits) PRS4213
- Philosophy and leadership of occupational safety and health improvement PRS 4222 (45 Credits)

Jan – March

- Research Methods and MSc Project (60 Credits) 12month - PRS4489
- Option Module: Management of health and Well-Being PRS 4464
  Or Environmental Assessment & Management PRS 4700 (15 credits)
- Applied Health and Safety and Technology (15 Credits) PRS 4553
- Philosophy and leadership of occupational safety and health improvement PRS 4222 (45 Credits)
- Occupational Hygiene and Health (15 credits) PRS 4512

April – July

- Research Methods and MSc Project (60 Credits) 12month - PRS4489

Part Time

Year 1

Sept – Jan

- Management of workplace health and safety (15 credits) PRS4213
- Philosophy and leadership of occupational safety and health improvement (45 Credits) PRS4222

Jan – March

- Occupational Hygiene and Health 15 credits PRS4512

- Philosophy and leadership of occupational safety and health improvement (45 Credits) PRS4222

Year 2

Sept – Jan

- Research Methods and MSc Project (60 Credits) (Taught Module) PRS4489
- Factors affecting risk and strategic risk intervention (15 Credits) PRS4434

Jan – March

- Research Methods and MSc Project (60 Credits) 12month - PRS4489
- Option Module: Management of health and Well-Being PRS 4464 Or Environmental Assessment & Management PRS 4700 (15 credits)
- Applied Health and Safety and Technology (15 Credits) PRS 4553

April – July

- Research Methods and MSc Project (60 Credits) 12month - PRS4489

12.2 Levels and modules

Level 7

COMPULSORY

- PRS4222 Philosophy and leadership of occupational safety and health improvement
- PRS4434 Factors affecting risk and strategic risk intervention
- PRS4213 Management of workplace health and safety
- PRS4512 Occupational Hygiene and Health,
- PRS4553 Applied Health and Safety and Technology
- PRS4489 Research Methods and MSc Project

OPTIONAL

- PRS4700 Environmental Assessment and Management

OR

- PRS4464 Management of Health and Well-being

The choice of module combined with the focus of the project will determine named awarded track ie Well-Being or Environmental Management

PROGRESSION REQUIREMENT

To exit with a named PGDip, students must have 120 credits passing taught modules.

12.3 Non-compensatable modules

Module level: 7

Module code: PRS4222 (45c) PRS4213 (15c) PRS4434 (15c) PRS4512 (15c) PRS4553 (15c) PRS4700 (15c) PRS4464 (15c) PRS4489 (60c)

13. A curriculum map relating learning outcomes to modules

See Curriculum Map attached

14. Information about assessment regulations

The regulations for assessment are common to the University.

Each module has one or more pieces of assessment. A minimum of 40% is required on each piece of assessment to pass. Within modules, where there is more than one component to a module assessment, and all pieces of work are at pass grade, the marks are aggregated and a grade given using the Middlesex University 20 point scale.

There are opportunities for re-assessment in failed components of work and specific details are given in the module handbooks. Where a student has failed a piece of work, the mark for the resubmitted work is capped at 40%.

Students must adhere to module assessment deadlines. Where a student cannot meet the deadline for extenuating reasons (for example illness, accidents, bereavement, family problems), an extension can be formally requested. Failure to participate in assessment without permission will result in a fail grade for the piece of assessment. Self-deferral is not permitted.

Students who do not attend sufficiently may not be able to submit the relevant assessment for the module.

15. Placement opportunities, requirements and support (if applicable)

Due to the nature of the award and being only 1 year in length there is no formal opportunity for a placement within the award.

16. Future careers (if applicable)

Increased skills in occupational health and safety risk assessment, auditing and an enhanced knowledge of occupational health and safety management will improve students' overall value to the employer and profession. Students' ability to take on an advisory or a more management role within an organisation will be advanced.

17. Particular support for learning (if applicable)

The University has 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 learning enhancement team are integrated into the teaching and delivery of the award

The Disability Support Service offers support to students with needs during their time at Middlesex.

There is an on-line learning platform to provide module and programme support. There is a specialist online platform for Occupational health and safety information: Barbour index

18. JACS code (or other relevant coding system)

B920

19. Relevant QAA subject benchmark group(s)

Health Studies, Bio-sciences

20. Reference points

The following reference points were used in designing the programme:

- Middlesex University Learning and Quality Enhancement Handbook (LQEH) 2019-20
- Middlesex University Regulations 2019/20
- Institute of Occupational Safety and Health standards COR3998 A and B
- IEMA environmental management accreditation approval

21. Other information

- A free electronic core textbook for every module.
- Printing and photocopying required for study.
- Self-service laptops available for 24 hour loan.

The following course-related costs are not included in the fees:

- Additional books to support study;

  Students are encouraged to attend the professional body events in London. There may be a limited number of off campus visits, dependent on external factors, to enhance knowledge and application and where these are available the cost will be limited to the cost of a London travel card

  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 s/he takes full advantage of the learning opportunities that are provided. More detailed information about the programme can be found in the student programme handbook and the University Regulations.

Appendix 1A: Curriculum Map MSc. Occupational Health, Safety and Environmental Management

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.

Knowledge and understanding

A1 The inter-relationship of legislative, regulatory, organisational, technical, cultural and scientific perspectives as applied to occupational health and safety in a wide range of complex situations and in a range of regions and locales

A2 The influence and importance of the overarching organisational culture, coupled with a wide range of management and leadership strategies to create, implement, review, use, and control safe and healthy systems of work.

A3 Hazard analysis, risk management, risk modelling, risk acceptability, risk communication, and risk decision-making.

A4 Workplace, work-equipment, chemical, physical, and biological hazards in the workplace, together with their potential to act synergistically to impact detrimentally on health, coupled with knowledge of approaches to the assessment and management of such hazards.

A5 Strategic, organisational, and personal factors that influence risk perception, behaviour, and risk response.

A6 The role of evidence and evidence-based practice and approaches, techniques available to undertake valid appraisal of research outputs.

A7 Regulation, legislation, and regulatory approaches used within the occupational safety and health setting.

A8 The core components of environmental management systems and their role in pollution prevention, together with the role of legislation and environmental regulators.

A9 The risks arising from common commercial and industrial processes and the application of Best Available Technology (BAT) in the context of industrial environmental management and control.

A10 Research approaches, techniques, and methodology for occupational health and safety-related research.

Skills

B1 Select, apply, and evaluate, autonomously, a range of inspection and investigation techniques.

B2 Evaluate the design and results of audits/investigations.

B3 Integrate internal and external evidence to be able to develop action plans and programmes for safety and health improvement.

B4 Make decisions, recommendations, and articulate solutions on a proposed course of action in relation to OHSE problems to managers, safety representatives, enforcement bodies, and the wider community in a professional manner and using a range of media solutions.

B5 Critically appraise legislation, guidance, and complex data and successfully communicate their implications to a wide range of personnel and audiences.

B6 Critically and continually reflect on own practice, and that of others, and select from a range of options the best mechanism to influence others to achieve best practice.

B7 Problem-solve at both an individual problem level and within the context of a range of problems, and prioritise a range of options and select appropriate communication formats to convey solutions.

B8 Critically appraise risk perception influences of human and organisational behaviour, risk management, and risk analysis.

B9 Work within teams to problem-solve and improve safety and health practices, and act as a team leader and specialist adviser to improve safety and health practices.

B10 Select and manage information in relation to safety and health.

B11 Exhibit applied competence in the use of management techniques in the assessment, evaluation, and solution-giving to commercial environmental aspects of environmental performance improvement.

B12 Plan and construct a substantial academic investigation within clear ethical dimensions, conduct thorough analysis, and effectively convey the findings.

Programme outcomes: A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12

Highest level achieved by all graduates: 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

Module title	Module Code and level	A1	A2	A3	A4	A5	A6	A7	A8	A 9	A 10	B 1	B 2	B 3	B 4	B 5	B 6	B 7	B 8	B9	B 10	B 11	B12
Philosophy and leadership of occupational safety and health improvement	PRS4222	X	X			X	X	X								X	X	X	X				
Factors affecting risk and strategic risk intervention	PRS 4434			X																			
Management of workplace health and safety	PRS4213			X	X			X				X	X	X	X								
Occupational Hygiene and Health,	PRS4512			X	X		X	X				X	X	X	X					X			
Applied Health and Safety and Technology	PRS4553			X	X													X			X		
Environmental Assessment and management	PRS4700			X					X	X			X	X	X						X	X	
Research Methods and MSc Project	PRS4489										X												X

Appendix 1B: Curriculum Map M.Sc. Occupational Health, Safety and Well-Being Management

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.

Knowledge and Understanding

A1 The inter-relationship of legislative, regulatory, organisational, technical, cultural, and scientific perspectives as applied to occupational health and safety in a wide range of complex situations and in various regions and locales.

A2 The influence and importance of overarching organisational culture, coupled with a wide range of management and leadership strategies to create, implement, review, use, and control safe and healthy systems of work.

A3 Hazard analysis, risk management, risk modelling, risk acceptability, risk communication, and risk decision-making.

A4 Workplace, work-equipment, chemical, physical, and biological hazards in the workplace, together with their potential to act synergistically to impact health detrimentally, coupled with knowledge of approaches to the assessment and management of such hazards.

A5 Strategic, organisational, and personal factors that influence risk perception, behaviour, and risk response.

A6 The role of evidence and evidence-based practice, and approaches, techniques available to undertake valid appraisal of research outputs.

A7 Regulation, legislation, and regulatory approaches used within the occupational safety and health setting.

A8 The risk arising from "unhealthy" workplaces and the application of a range of tools to measure, evaluate, and control such risks.

A9 The inter-relationship between active communication and consultation, active listening, positive culture, and leadership in creating healthy workplaces.

A10 Research approaches, techniques, and methodology for occupational health and safety-related research.

Skills

B1 Select, apply, and evaluate, autonomously, a range of inspection and investigation techniques.

B2 Evaluate the design and results of audits/investigations.

B3 Integrate internal and external evidence to develop action plans and programmes for safety and health improvement.

B4 Make decisions, recommendations, and articulate solutions on a proposed course of action in relation to OHSE problems to managers, safety representatives, enforcement bodies, and the wider community in a professional manner and using a range of media solutions.

B5 Critically appraise legislation, guidance, and complex data and communicate their implications successfully to a wide range of personnel and audiences.

B6 Critically and continually reflect on own practice, and that of others, and select from a range of options the best mechanism to influence others to achieve best practice.

B7 Problem-solve at both an individual problem level and within the context of a range of problems, prioritise a range of options, and select appropriate communication formats to convey solutions.

B8 Critically appraise influences on risk perception, including human and organisational behaviour, risk management, and risk analysis.

B9 Work within teams to problem-solve and improve safety and health practices, and act as a team leader and specialist adviser to improve safety and health practices.

B10 Select and manage information related to safety and health.

B11 Exhibit applied competence in the use of a range of tools to measure and evaluate well-being at work and apply solutions to address workplace stressors.

B12 Plan and conduct a substantial academic investigation within clear ethical dimensions, perform thorough analysis, and effectively convey the findings.

Programme outcomes: A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12
Highest level achieved by all graduates: 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

Module title	Module code and level	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	B1	B2	B3	B 4	B5	B6	B7	B8	B9	B10	B11	B12
Philosophy and leadership occupational safety and health improvement	PRS4222	X	X			X	X	X								X	X	X	X				
Factors affecting risk and strategic risk intervention	PRS 4434			X																			
Management of workplace health and safety	PRS4213			X	X			X				X	X	X	X								
Occupational Hygiene and Health,	PRS4512			X	X		X	X				X	X	X	X					X			
Applied Health and Safety Technology	PRS4553			X	X													X			X		
Management of health and Well-Being	PRS4464			X					X	X			X	X	X						X	X	
Research Methods and MS Project	PRS4489										X												X