![Liverpool John Moores University logo]

Programme Specification Document

Approved, 2022.02

Overview

Programme Code	33169-PC
Programme Title	Risk and Safety Management
Awarding Institution	Liverpool John Moores University
Programme Type	Masters
Language of Programme	All LJMU programmes are delivered and assessed in English
Programme Leader	
Link Tutor(s)	Dante Matellini

Partner Name	Partnership Type
Risktec Solutions	Validated

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Postgraduate Certificate - PC	See Learning Outcomes Below

Alternate Award Names	

External Benchmarks

Subject Benchmark Statement	

Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Part-Time, Distance Learning	October	Risktec Solutions	1 Years

Aims and Outcomes

Educational Aims of the Programme

The educational aims of the programme are that the student should: • justify the use of risk assessment through illustration of the objectives of, and drivers for, risk assessment • analyse and evaluate a range of practical risk management tools and techniques and apply selected techniques • devise practical solutions for real-life risk management problems • develop a questioning and critical attitude to management of risks • display mastery of clear and effective communication of risk • have opportunity to practise self-learning.

Learning Outcomes

Code	Description
PLO1	Display knowledge and understanding of risk management tools and techniques
PLO2	Apply learning to workplace situations
PLO3	Understand the key issues relating to environmental and safety matters in order to comply with certain risk management legislation
PLO4	Undertake research and apply appropriate techniques to problem solving
PLO5	Design technical reports and practice technical report writing
PLO6	Use technical/scientific literature effectively
PLO7	Research and present findings using appropriate information technology
PLO8	Communicate effectively in a professionally appropriate manner – in writing, verbally and with diagrams
PLO9	Display enhanced self-learning skills appropriate to the level of study
PLO10	Manage time and prioritise workloads to meet deadlines
PLO11	Learn independently in familiar and unfamiliar situations
PLO12	Apply appropriate techniques to analyse and solve risk management problems
PLO13	Evidence critical thinking and analysis of complex industry-related, risk management issues
PLO14	Interpret and analyse case study material pertinent to practical risk management
PLO15	Demonstrate the skills necessary to plan, conduct and present the findings of a programme of research
PLO16	Apply the skills needed for academic study and enquiry at Level 7

Code	Description
PLO17	Apply strategies for appropriate selection of information from a wide source and large body of knowledge
PLO18	Critically evaluate information and evidence and apply to industry related scenarios
PLO19	Effective problem solving and decision-making using appropriate quantitative and qualitative skills

Programme Structure

Programme Structure Description

Students are required to achieve 60 credits at Level 7 for a PG Cert. There is 1 core module and 19 optional modules. The Principles of Risk Management module (7588RTC) must be studied first. Nature of Delivery: Modules are studied in series (not in parallel). All teaching materials designed for delivery by distance learning. Duration of Delivery: Each module consists of 16 teaching hours followed by 3-8 weeks of self-study and assessment. The whole PgCert programme lasts approximately 12 months part-time.

Programme Structure - 60 credit points	
Level 7 - 60 credit points	
Level 7 Core - 10 credit points	CORE
[MODULE] 7588RTC Principles of Risk Management Approved 2022.01 - 10 credit points	
Level 7 Optional - 50 credit points	OPTIONAL
[MODULE] 7577RTC Availability, Reliability, Maintainability (ARM) Analysis Approved 2022.01 - 10 credit points	
[MODULE] 7578RTC Bowtie Risk Management Approved 2022.01 - 10 credit points	
[MODULE] 7579RTC Culture, Behaviour and Competency Approved 2022.01 - 10 credit points	
[MODULE] 7580RTC Emergency Response and Crisis Management Approved 2022.01 - 10 credit points	
[MODULE] 7581RTC Engineered Risk Control Systems (Oil and Gas) Approved 2022.01 - 10 credit points	
[MODULE] 7582RTC Functional Safety of Safety-Related Systems Approved 2022.01 - 10 credit points	
[MODULE] 7583RTC Hazard and Operability (HAZOP) Study Approved 2022.01 - 10 credit points	
[MODULE] 7584RTC Hazard Identification Approved 2022.01 - 10 credit points	
[MODULE] 7585RTC Health, Safety and Environmental (HSE) Management Systems Approved 2022.01 - 10 credit points	
[MODULE] 7586RTC Human Factors in Design and Operations Approved 2022.01 - 10 credit points	
[MODULE] 7587RTC Incident Investigation and Analysis Approved 2022.01 - 10 credit points	
[MODULE] 7589RTC Oil and Gas and Process Industry Quantitative Risk Assessment (QRA) Approved 2022.01 - 10 credit points	
[MODULE] 7590RTC Oil and Gas and Process Industry Risk Studies Approved 2022.01 - 10 credit points	
[MODULE] 7591RTC Physical Effects Modelling Approved 2022.01 - 10 credit points	
[MODULE] 7593RTC Research Methods in Risk and Safety Management Approved 2022.01 - 10 credit points	
[MODULE] 7594RTC Risk Analysis Approved 2022.01 - 10 credit points	
[MODULE] 7595RTC Risk Reduction and ALARP Approved 2022.01 - 10 credit points	
[MODULE] 7596RTC Safety/HSE Cases Approved 2022.01 - 10 credit points	
[MODULE] 7597RTC Workplace Safety Approved 2022.01 - 10 credit points	

Module specifications may be accessed at https://proformas.ljmu.ac.uk/Default.aspx

Teaching, Learning and Assessment

Acquisition of knowledge is achieved mainly through illustrated and annotated presentation materials, individual and group exercises and directed student-centred learning where appropriate resource material is available. Understanding is reinforced through both the exercises and the main end-of-module assessments which typically take the form of an essay (usually case study),technological task and/or technical report. Testing of the knowledge base is undertaken in the form of the essays, reports, technological tasks (learning outcomes 1-6). Intellectual skills are developed in part through exercises during the module delivery and principally through end-of-module assignments, which test all learning outcomes, 7-12. Individual exercise and group exercises within the taught part of the programme are designed to permit students to demonstrate achievement of learning outcomes 10-12. Analysis and problem solving skills are assessed in the form of essays, reports and technological tasks. Professional practical skills are developed in a coordinated manner throughout the programme. Real-life examples and case studies are used to illustrate techniques and risk management issues, hence relating the learning to workplace examples. Where a programme is being delivered to a cohort of students from the same employer, company-specific case studies and examples may be used. Professional skills are assessed (informally / implicitly) through essays, reports and technological tasks. Transferable skills permeate every activity within the programme content and assessment. Skills 19, 20, 21 and 24 are assessed through essays, reports and technological tasks. Skills 22, 23, and 25 are not formally assessed but their application is embedded within the self-management process of researching and completing assessments on time.

Opportunities for work related learning

Assessments will normally be based on an individual's work experience. The modules are designed to be relevant to the workplace and real-life case studies are used throughout, with a practical emphasis on risk management techniques. Students are encouraged to use their own work experience in assignments, where appropriate.

Entry Requirements

Type	Description
Alternative qualifications considered	Students must meet at least one of the following criteria: • An undergraduate degree or equivalent in science, engineering, business management, or related studies, or • Be an industry professional with 5+ years industry experience, with some exposure to risk management tools and techniques, or • Be a mature student with qualifications and experience who in the opinion of the programme team will be able to successfully complete the programme, or • An appropriate combination of undergraduate degree (or academic equivalent) and industry experience at the discretion of the Programme Leader. The entry criterion for English language ability is possession of one of the following qualifications: • IELTS 6.5, or • TOEFL 560 Paper Based/220 Computer Based/ 83 Internet, or • Cambridge examination Board: Advance Certificate of English, grade C or above. Applicants who have studied and successfully achieved a UK degree, or a degree from an English speaking country, are exempt from the requirements to produce evidence of competence in English. Any applicant to the programme who does not match the above English language criteria will be given an interview (by telephone if face to face is not practical) to ascertain their knowledge, skills and experience in relation to the programme requirements. If a student who has been accepted onto the programme subsequently displays difficulty with the technical content and/or English language, support will be provided (see Section 15 below). In the first instance the module teacher, Project Manager or Programme Leader will discuss the issue with the student (in confidence) and advice would be given to the student. If the problem persists, the Project Manager and/or Programme Leader will discuss options with the student and, where a student has been placed on the programme by their employer, with the employer (with the student's permission), and the appropriate course of action for the remainder of the programme will be agreed jointly.

Extra Entry Requirements