

Distance Learning MSc, PgDip and PgCert in Risk & Safety Management



Risktec is a leading provider of consulting services for health, safety, security, environmental (HSSE) and business risks and is partnered with Liverpool John Moores University (LJMU) in the UK to deliver professional training and education via face-to-face (classroom) and distance learning methods.

The available postgraduate qualifications in Risk and Safety Management are:

- Master of Science (MSc)
- Postgraduate Diploma (PgDip)
- Postgraduate Certificate (PgCert)

Risktec is now seeking applicants for each of these award programmes to be run via distance learning, starting 1st June 2012

Why invest in a postgraduate qualification in risk and safety management?

- ☑ More punitive legislation, use of novel technology and high profile major accidents ensure that risk and safety management is a **growing profession**.
- ☑ There is a shortage of skilled risk and safety professionals and a postgraduate qualification can be a 'fast-track' into the profession.
- ☑ A postgraduate qualification **demonstrates learning** with the ability to **think creatively** in order to solve complex risk and safety problems.
- ☑ Enrolling on a Risktec programme ensures that your learning is **relevant** to industry and the situations you are likely to encounter in the **real professional world**.

Enrolment options:

Students have the option of enrolling directly onto one of three programmes (MSc, PgDip or PgCert) or enrolling initially on the PgCert and then transferring onto the PgDip and finally the MSc.

Programme awards:

The **PgCert** requires participants to gain 60 credits from 6 modules. Each module involves up to 100 hours of part-time study, which includes submission of a formal written assessment. Each module should be completed within 8 weeks. The programme takes one year to complete.

The **PgDip** requires participants to gain 120 credits from 12 modules. The programme takes two years.

The **MSc** requires participants to gain 180 credits from 12 modules plus an academic project (dissertation) of 60 credits. This programme takes three years, with the project needing to be finished within the third year.

Single modules may also be studied as a Certificate of Professional Development (CPD) to gain 10 credits.

Who should attend?

Anyone seeking to implement practical risk management within major hazard industries, such as oil and gas, petrochemical, chemical, nuclear, transportation, mining.

dream 

plan 

achieve 

Programme

The postgraduate programme has been designed to meet the growing need for industry-related courses and qualifications in risk and safety management. The courses are delivered by teachers with industrial experience and aim to develop the practical skills and knowledge of students.

The modules are kept current through Risktec's processes for monitoring research programmes, new developments, legislation and standards, as well as experiences from across our worldwide consulting activities.

At the end of the programme you will be able to:

- Justify the use of risk assessment through illustration of its objectives and drivers
- Analyse and evaluate a broad range of practical risk management tools and techniques and demonstrate expertise in 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
- Practise self-learning and demonstrate a commitment to the risk management profession

PgCert modules:

Introduction to Practical Risk Management

Drivers for risk management
Elements of risk management process
Risk assessment and decision making
Example tools, techniques and studies
HSE management systems and cases
Causes of major accidents

Hazard Identification

Hazard identification techniques
Hazard identification through the lifecycle
FMEA
HAZID study
HAZOP study
Making recommendations

Hazard Assessment

Identifying and recording hazards
Hazard assessment through the lifecycle
Risk assessment matrix
Qualitative and quantitative techniques
Health and environmental risk assessment
Security and business risk assessment

Health, Safety & Environment (HSE) Management Systems

Definition of HSE-MS
Elements of HSE-MS
Legislation, standards & guidance
Documenting the HSE-MS
Implementing the HSE-MS
Leadership and organisational change

Risk Reduction & ALARP

Hierarchy of risk reduction measures
Risk reduction through the lifecycle
ALARP principle
Demonstrating ALARP
Cost-benefit analysis
Other concepts used in risk reduction

Safety/HSE Cases

Requirements (legal, industry, company)
Types of case by lifecycle phase
Structure and approach
Links with studies, HSE-MS and other interfaces
Documenting the case
Keeping the case live



PgDip modules comprise the PgCert modules plus:

Bowtie Analysis

The bowtie method - how to build a bowtie
HSE-critical elements, activities and tasks
Acceptance criteria and ALARP
Practical uses of bowties, software tools

Workplace Safety

Workplace hazards and controls
Safe systems of work, permit-to-work & safe isolation
Behavioural safety systems
Hazardous chemicals management & PPE

Human Factors in Design and Operations

Human factors in design
Information processing and operations
Human error identification and reliability analysis
Human factors integration

Competency Management, Culture and Behaviour

Competency management process
Organisational culture
Human behaviour and safety
Organisational change management

HAZOP Study

HAZOP technique in project lifecycle
HAZOP guidewords and parameters
Managing HAZOP studies and teams
Producing HAZOP reports

Research Methods in Risk & Safety Management

Study and research skills
Literature search methods / useful data sources
Research methodologies incl. statistical techniques
Project planning & time management

MSc Project

The MSc project comprises a dissertation of approximately 15,000 words. The project is selected in consultation with Risktec and LJMU and requires the student to justify the project's objectives and development plan. Risktec guides the student in selecting a state-of-the-art topic in risk and safety management that is of real interest to current and prospective employers. The student liaises with an academic (LJMU) and industrial (Risktec) supervisor throughout the project. The final delivery also includes a verbal presentation by the student.

Completing the MSc enables the student to demonstrate an in-depth knowledge of specific issues related to their dissertation topic, present systematic and relevant written arguments and apply analytical skills in a rigorous and in-depth manner.

How is the programme delivered?

Distance learning is delivered via LJMU's online learning environment, 'Blackboard'. The module material comprises slides and explanatory notes, plus references to further reading and useful websites. Students engage in online activities including tests, discussions, group tasks and virtual classrooms. This approach encourages participation and interaction amongst students. Support from the module teacher is available throughout the programme.

Dates

The PgCert will start on **1st June 2012** and run for approximately 12 months.
The PgDip will start on **1st June 2012** and run for approximately 24 months.
The MSc will start on **1st June 2012** and run for approximately 36 months.



Programme Registration

How to Register: Email training@risktec.co.uk for an application form and further information, or call Peter Moar on +44 1925 611200. Closing date for applications: 1st May 2012. Apply early - entry strictly limited to 25 students.

Entry requirements for all applicants: a relevant bachelor degree or equivalent, or 5+ years of relevant work experience, plus proven English language capability and broadband internet access.

Pricing

Payment by card or bank transfer

Qualification Award	Early Application Price GBP (£)	Standard Price GBP (£)	Early Upgrade Price GBP (£) (valid for 2012)	Standard Upgrade Price GBP (£) (valid for 2012)
MSc	£14,190	£14,490	From PgDip £4,100	From PgDip £4,200
PgDip	£10,290	£10,490	From PgCert £5,295	From PgCert £5,495
PgCert	£5,395	£5,495		
Single module CPD	£895	£935		

UK Value Added Tax (VAT) may apply to the quoted price. See guidance below.

Early application price ends 45 days before start of programme or module.

Payment deadlines are always 25 days prior to start of programme or module.

Upgrade prices may vary with LJMU fee changes and other adjustments for inflation.

VAT Guidance:

No VAT will be charged for an individual or company outside the European Union (EU).

VAT will be charged at 20% for a UK based individual, UK company, EU based individual or non-business EU organisation.

No VAT will be charged for EU based businesses outside the UK but **you must provide proof of trading status, e.g. local tax registration number**, then account for VAT as required in your own jurisdiction under EU VAT Business to Business rules.

Why Select a Distance Learning Programme with Risktec?

- Risktec is **respected** as a leading risk and safety management consulting and education company, with some of the world's most impressive companies as clients.
- Gaining a formal postgraduate qualification from a recognised institution helps improve your **career prospects** and could also increase your **remuneration**.
- A postgraduate qualification helps an inexperienced graduate to prove to a prospective employer their **commitment** to the field of risk and safety.
- A postgraduate qualification can be a '**fast-track**' into the growing risk and safety market for people working in related fields.
- An experienced person already working as a risk and safety practitioner will gain a broader and deeper **knowledge** of the subject, while also achieving formal **recognition** of their hard earned experience.
- Participants can study at a time that best suits them, working at their **own pace** and from home.
- Participants gain access to Risktec's **experienced consultant-teachers**, as well as the opportunity to network and interact with **other students** during group tasks and virtual classrooms.
- Distance learning **avoids the costs** of travel and accommodation associated with classroom learning.
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