

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



Risktec is a leading provider of professional training and education in **Risk and Safety Management**. We work in partnership with Liverpool John Moores University (LJMU) delivering postgraduate courses via face-to-face (classroom) and distance learning methods.

We also provide consulting services for health, safety, security, environmental (HSSE) and business risks.

The following postgraduate qualifications can be achieved in **Risk and Safety Management**:

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

Risktec is now seeking applicants for each of these distance learning programmes.

Starting 1st February 2016

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

- ☑ There is a shortage of skilled risk and safety professionals, so a postgraduate qualification can be a 'fast-track' into the profession.
- ☑ More punitive legislation, use of novel technology and high profile major accidents ensure that risk and safety management is a **growing 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 2 years to complete.

The **MSc** requires participants to gain 180 credits from 12 modules plus an academic project (dissertation) of 60 credits. This programme takes approximately two years and six months to complete, with the project needing to be finished within the last 6 months.

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.



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 Risktec's practising risk and safety consultants 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 global 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 Risk Management	Research Methods in Risk & Safety Management
Drivers for risk management	Project analysis and design
Elements of risk management process	Literature search and review techniques
Demonstration of ALARP	Research methodologies, statistical techniques
Example tools, techniques and studies	Ethics in research
HSE management systems and cases	Project planning, Time management, Gantt charts
Causes of major accidents	Presentation skills
Hazard Identification	Risk Analysis
Hazard identification techniques	Identifying and recording hazards
Hazard identification through the project lifecycle	Risk assessment matrix
Failure Modes and Effects Analysis (FMEA)	Qualitative and quantitative techniques
HAZID/ checklist approach	Health and environmental risk analysis
Hazard and Operability (HAZOP) studies	Security and business risk analysis
Making recommendations	Good practice in risk analysis
Health, Safety & Environment (HSE) Management Systems	Risk Reduction & ALARP
Definition of HSE-MS	Hierarchy of risk reduction measures
Elements of HSE-MS	Risk reduction through the project lifecycle
Legislation, standards & guidance	The ALARP concept
Documenting the HSE-MS	Demonstrating ALARP
Implementing the HSE-MS	Qualitative and semi-qualitative approaches
Leadership and organisational change	Cost-benefit analysis (CBA), Societal risk

PgDip modules comprise the PgCert modules plus:

Workplace Safety

Workplace hazards and controls
Safe systems of work
Permit-to-work & safe isolation
Behavioural safety systems
Hazardous zones & PPE

Safety/HSE Cases

Safety case definition & structure
Safety cases through the lifecycle
Tools & techniques
Attributes of a good safety case
Safety case maintenance

Bowtie Risk Management

The Bowtie method - how to build a bowtie
Assuring barrier integrity
Effectiveness and ALARP for bowties
Facilitating bowtie workshops, Bowtie software tools

Human Factors in Design and Operations

Human factors in design
Human factors integration
Defining human error
Human Reliability Analysis

HAZOP Study

HAZOP process; overview & detail
HAZOP preparation & facilitation
Recording and report writing
Typical HAZOP failings

Culture, Behaviour and Competency

Safety culture and leadership
Behaviour, communication, competency
Culture and behaviour tools
Examples of major accidents and root causes

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 may also include a verbal presentation by the student (e.g. by videoconference or visit to a Risktec office).

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 our online learning environment, '**Risktec Online**'. Students download the material for each module which typically comprises 150 slides with explanatory notes, one or more videos, plus references to further reading and useful websites. Students can engage in online activities (typically ten) including tests, discussions and virtual classrooms. This approach encourages participation and interaction amongst students. Support from the module teacher is available throughout the programme. The programmes are 100% online, enabling students to study and submit their formal written assessments from anywhere in the world.

Dates

The PgCert will start on **1st February 2016** and run for approximately 12 months.

The PgDip will start on **1st February 2016** and run for approximately 2 years and 9 months

The MSc will start on **1st February 2016** and run for approximately 3 years and 6 months.

Programme Registration

How to Register: Email Vicky Billingham at training@risktec.com for an application form and further information. Closing date for applications: **1st January 2016**. 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 is in advance, either by card or bank transfer.

Qualification Award	Early Application Price USD (\$)	Standard Price USD (\$)	Early Upgrade Price USD (\$) (valid for 2015)	Standard Upgrade Price USD (\$) (valid for 2015)
MSc	\$23,100	\$23,550	From PgDip \$6,600	From PgDip \$6,750
PgDip	\$16,725	\$17,025	From PgCert \$8,520	From PgCert \$8,820
PgCert	\$8,670	\$8,820		
Single module CPD* (2015 price)	\$1,433	\$1,493		

Early application price ends 45 days before start of programme or module. Application deadline is 30 days prior to start. Payment deadlines are always 25 days prior to start of the programme or module.

Upgrade prices may vary with future LJMU fee changes and other adjustments for inflation. Payment by instalment is available.

UK Value Added Tax (VAT) may apply to the quoted price:

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.

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

* CPDs are treated as individual modules and cannot be upgraded to a PgCert, PgDip or MSc.

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.
- Distance learning **avoids the costs** of travel and accommodation associated with classroom learning.