Digital Risk Management Certificate

www.theirm.org/digitalrisk
The IRM is the leading professional body for Enterprise Risk Management (ERM). We drive excellence in managing risk to ensure organisations are ready for the opportunities and threats of the future. We do this by providing internationally recognised qualifications and training, publishing research and guidance, and setting professional standards.

For over 30 years our qualifications have been the global choice of qualification for risk professionals and their employers. We are a not-for-profit body, with members working in all industries, in all risk disciplines and in all sectors around the world. In 2019, the IRM welcomed the Institute of Operational Risk (IOR) into the IRM group.

Organisations that have previously benefited from our qualifications include:
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Introduction to IRM qualifications

The IRM’s qualifications have been developed by internationally recognised academics and industry practitioners. They will provide you with the broad knowledge and the practical skills you need to manage risk.

Our qualifications give you the theory, tools and techniques to manage risk, maximise opportunities and protect your organisation. You can learn from anywhere in the world via supported distance learning, which includes directed self-study and online coaching.

Why study with the IRM?

As the world’s leading professional body for ERM we have a global reputation for offering highly practical, academically rigorous qualifications to meet industry needs.

We are responsive to the latest challenges facing risk managers, including growing cyber threats and international regulatory developments. This volatile environment has seen regulators, investors and businesses make increasing demands on organisations to demonstrate they have top-class risk management in place at an integrated, enterprise level. Our focus is therefore on the importance of strategy, culture, behaviour and competence in relation to risk and on concepts like risk appetite, risk maturity and decision making.
IRM Student Membership

Enrolling for a qualification means you join IRM and become part of our global community that covers 143 countries. You can also access a valuable range of benefits to support you through your risk management studies and beyond. These include our online resources, access to thought leadership, topical webinars and special interest groups in industries such as charities, cyber, health and care, innovation, infrastructure and operational risk.

Benefits to employers

An organisation that effectively and efficiently manages its risks and opportunities is more likely to achieve its business objectives at lower overall costs. Risk management is an inherent part of good management. By supporting your employees through our qualifications, you will benefit from:

- Enhancing business performance and improving risk decision making.
- Associating your organisation with best risk management practice.
- Attracting and retaining high-calibre professionals by investing in personal development.
- Developing a motivated, skilled and knowledgeable team.
- Receiving discounts on membership, qualifications, training and events.
Digital Risk Management Certificate overview

The IRM Digital Risk Management Certificate is the essential qualification for tomorrow’s risk practitioner.

New developments in digital technology offer organisations huge opportunities but also pose big strategic and operational risks. From retail, to music, to financial services, we have seen multiple high profile cases of strategic disruption of traditional markets by new ways of delivering products and services. And, at an operational level, we see organisations exposed to cyber-attacks, data breaches, internet enabled fraud and ransomware demands. Emerging technologies like blockchain, artificial intelligence, robotics and the Internet of Things (IoT) will pose further opportunities and challenges.

Everyone concerned with managing organisations should understand these developments and how to navigate the new risk landscape that they bring. IRM’s new qualification, developed in collaboration with the University of Warwick, will equip risk practitioners and other professionals with the knowledge and skills they need to face the new digital future with confidence.

Qualification overview

The Digital Risk Management Certificate is a stand-alone qualification and can be completed in as little as six months. It is suitable as an introduction to the subject of digital risk management for those from all disciplines directly or indirectly related to professional risk management and is the ideal qualification for anyone looking to develop an understanding of risk management in the digital era.

Qualification aims

This qualification introduces the concepts of digital risk management and will equip risk practitioners with the ability to apply their skills in an increasingly fast-paced and changing digital world. It explains how new technologies and digitalisation are disrupting businesses, changing the risk environment for organisations of all types and posing new ethical challenges. It looks at how appropriate risk management tools and techniques can be applied, adapted and developed in this digital context. The qualification also provides a detailed introduction to cyber security principles and practices.
Qualification learning outcome

After taking this qualification, individuals will be able to:

➢ Demonstrate a broad understanding of today’s most important digital technological developments.
➢ Explain how digital technology and innovation is impacting organisations and society.
➢ Contribute knowledgeably to identifying, assessing and controlling digital risks throughout their organisation and its wider supply chain, associated with new technologies and new ways of working.
➢ Help their organisations apply concepts such as risk appetite, ethics and legal frameworks in the context of digital and technological innovation,
➢ Describe the key cyber threats and the basic disciplines of cybersecurity Explain the key elements of a practical, risk-based cybersecurity framework and discuss ways of controlling risks and defence in depth.
➢ Understand the key elements of practical cyber risk response, including the role of risk management systems, compliance and cyber defence frameworks.
➢ Discuss governance, incident management and reporting and apply the principles of audit and assurance to digital risks.
Enrolling for the Digital Risk Management Certificate

The online application form available on our website must be completed and the appropriate fee paid to enrol as a student. Please visit: www.theirm.org/digitalrisk.

Entry requirements

There are no formal entry requirements for this qualification.

Level

The Certificate is set at an equivalent level of difficulty to an undergraduate degree.

Progression

The Digital Risk Management Certificate is a stand-alone qualification. Students wishing to progress to the International Diploma in ERM should first enrol on the International Certificate in ERM or Financial Services Risk Management.

How long does it take to complete?

Students enrolled on the Certificate can complete the qualification within 6-9 months.

An indicative study time for the qualification is between 180 and 200 hours.

Assessment

The Certificate is assessed by a 90 minute computer-based multiple choice examination.

Examination sessions

There will be 2 sessions each year from 2021: June & December. View our website for the latest enrolment deadline and sessions.

Membership

Students on this qualification will benefit from IRM student membership while studying, including access to member groups, discounts and online resources. Successful students will be issued with a completion certificate and if not already an IRM member can apply to become an Affiliate Member of the Institute to continue their membership.
Further information

Study support

Studying for a professional qualification can be challenging when balancing distance-learning study, work and family commitments. To make studies as straightforward as possible for students, we provide a comprehensive support package.

The online support area ‘The Study’ provides students with the essential resources and information to help plan their studies and prepare for the exam, including a detailed study guide, learning activities and interactive discussion forums.

Examination centres

Students take the exam on-screen at a Pearson VUE computer-based test centre. Pearson VUE has an extensive network of test centres across the world.

Confirmation of how to book a test centre and notification of the address will be sent to students after they enrol.

Examination policies

Students must attend the exam centre in person and provide proof of identity to take the exam.

Payment methods

Full details of payment methods can be found online. Payment can be made using:

- BACS / bank transfer
- Debit / credit card
- Cheque

All payments must be received before study materials can be accessed.

Group enrolments: Discounts are available for groups of employees enrolling from the same organisation for the same exam session. For further information please contact Joanna Kraska at: joanna.kraska@theirm.org or +44 (0)20 7709 4117.
Unit 1: The digital revolution

An introduction to the digital world and today’s most important technological developments.

Contents
1.1 Digital risk, digital technology and the “4th industrial revolution”
1.2 Increased digitisation: Physical and digital technologies
1.3 Moore’s Law
1.4 Digitisation, reproducibility and free content
1.5 FinTech, RegTech and Blockchain

Unit 2: Digital disruption, ethics and risk management

Explores the risks and opportunities associated with digital technology, the ethical implications of digital innovation and the general risk management standards and frameworks.

Contents
2.1 Digital disruption, organisational and societal change
2.2 Digital disruption: Artificial Intelligence
2.3 Productivity gains from digital innovation
2.4 Ethics of digital innovation and globally relevant European regulations
2.5 Risk and general risk management principles and practices

Unit 3: Digitisation risk and cybersecurity risk

Focuses on the two kinds of digital risk and the key cyber threats and basic disciplines of cybersecurity.

Contents
3.1 Two kinds of digital risk
3.2 Cyber threats
3.3 Cyber risks from outsourced connections
3.4 Cybersecurity functions and roles
## Unit 4: Digital risk management approaches and security

Discusses defence in depth and explains how security by design can identify, classify and protect valuable information assets.

**Contents**
- 4.1 Protecting information assets
- 4.2 Cyber defence points and controls
- 4.3 Defence in depth
- 4.4 Human factors
- 4.5 Applying technical controls

## Unit 5: Attacks, defence and risk-based digital risk management

Examines the motivations and capabilities of the threat actors fighting the cybersecurity cold war and explains how a risk management system can manage multiple digital risks, providing examples of the tools and techniques to achieve this.

**Contents**
- 5.1 Attack and defence
- 5.2 Defence methods and frameworks
- 5.3 Threat actors
- 5.4 Digital risk management

## Unit 6: Risk-based cybersecurity, change management exposure and response

Covers governance, incident management and reporting and how the techniques discussed in this course integrate and align with business objectives.

**Contents**
- 6.1 Governance, business objectives and digital risk
- 6.2 Change management
- 6.3 Best practice approaches
- 6.4 Incident management and reporting
- 6.5 Future trends and emerging risks
Laurien Ukurikiyimfura  
Audit Manager  
Bank of Kigali Limited, Rwanda  
“Institutions have embraced automation of their services. To cope with this shift, you should pro-actively take the Digital Risk Management Certificate, it opens your eyes on how better you can add value where digital risk identification is concerned.”

Robert Luu  
Director of Customer Success  
Galvanize, Singapore  
“Whether you’re directly in risk management practice or not, it is a great program to immerse yourself in to grasp the foundational knowledge that touches on a variety of topics of today, and the technological advancement of the future.”

Emma Duggan  
Risk Manager  
Experian, United Kingdom  
“The IRM’s Digital Risk Management Certificate is extremely relevant to my role and I would urge risk professionals to consider it. It is very relevant for anyone working in technological development, as risk is everyone’s responsibility.”

Aaron Ginzburg, CMIRM  
Senior Risk and Compliance Partner  
Deakin University, Australia  
“I would encourage you to undertake the qualification. It’s highly relevant both in a professional capacity, but even on a personal level, exposing me to important background, & explaining why the rate of technological progress has been so rapid.”

View more testimonials at:  
www.theirm.org/whatourstudentssay
Risk Management Training
Industry-leading training courses delivered by risk experts for over 30 years

Benefits of IRM training:
- **CPD**
- CPD & accreditation
- Industry expert trainers
- Practical & interactive training

Training courses include:
- Risk Essentials Masterclass
- Senior Risk Masterclass
- Operational Risk Masterclass **NEW**
- Fundamentals of Risk Management (FoRM)
- Choosing and Using Key Risk Indicators
- Embedding Risk Management
- Managing Risk in a Digital World
- Project Risk Management
- Optimising Risk Workshops
- Organisational Resilience
- Risk Champions
- Risk Culture
- Risk Management for Infrastructure
- Risk Management for Oil & Gas

Find out more at:
www.theirm.org/training
Why risk it? Get Qualified.

Advance your career with the IRM Qualifications

IRM Qualifications include:

- International Certificate in Enterprise Risk Management
- International Certificate in Financial Services Risk Management

Benefits of IRM Qualifications

- Supported online learning from anywhere around the world
- 5000+ exam centres globally
- Earn internationally recognised designations

Byron Tidswell, IRMCert
General Manager Risk, Assurance and Audit, V/Line, Australia

“The International Certificate provided a really practical and useful framework to think about operational and enterprise risk. It has been invaluable to me in continuing to build performing risk management functions.”

For more information, please visit:

www.theirm.org/qualifications
This qualification introduces the concepts of Supply Chain Risk Management (SCRM) and equips risk practitioners with the ability to apply their risk management knowledge in a world where value is increasingly added via a supply chain. It explains how globalised outsourcing, specialisation and just-in-time production are changing the risk environments for many organisations.

It looks at how appropriate risk management tools and techniques can be applied, adapted and developed in an increasing digital context. The qualification also provides a broad understanding of SCRM principles and practices. The relevance of the qualification is explained in the context of increasingly extended organisations facing an expanded range of complex interconnected risks.

**What our experts say**

**Robert J Trent PhD**  
Professor of Supply Chain Management, Lehigh University  
“This certificate provides people with the knowledge, concepts, and tools to enable them to become a valuable part of their organisation’s efforts to survive and prosper in an ever changing world.”

**Nick Wildgoose**  
Independent Supply Chain Risk Consultant  
“Supply chain disruptions and reputational incidents happen every day, that could have been better managed to drive value. This new qualification will help learners develop an understanding of SCRM, and the tools which can help organisations stay protected.”

For more information, please visit:  
[www.theirm.org/supplychain](http://www.theirm.org/supplychain)