Technology Risk Management and IT Audit

26 – 30 April 2027
Singapore (Singapore)



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Introduction

The Technology Risk Management and IT Audit course provides professionals with a deep understanding of how to identify, assess, and mitigate technology-related risks while implementing effective IT audit strategies.

In today's highly digital environment, organizations depend on complex information systems to drive business operations. This reliance increases exposure to cyber threats, operational disruptions, and compliance failures — making technology risk management a critical component of corporate governance.

This program bridges the gap between risk management, IT governance, and internal auditing. It introduces participants to modern frameworks and practical tools that enhance system reliability, safeguard data, and ensure regulatory compliance.

Through a combination of theory, case studies, and workshops, participants will gain hands-on experience in evaluating IT controls, conducting audits, and improving institutional resilience against emerging technology risks.

Course Objectives

By the end of this course, participants will be able to:

- Understand the key principles and components of technology risk management.
- Identify different types of technology and information security risks.
- Apply structured methodologies to assess and mitigate IT risks.
- Develop and implement effective technology risk management plans.
- Design and execute IT audit programs aligned with global standards.
- Utilize digital auditing tools to collect and analyze system data.
- Prepare professional IT audit reports and communicate findings effectively.
- Integrate IT audit outcomes into the overall risk and compliance framework.



Course Outlines

Day 1: Foundations of Technology Risk Management

- Definition and importance of technology risk management.
- Relationship between risk, governance, and organizational objectives.
- International frameworks for risk management.
- Stages of the technology risk lifecycle.
- Workshop: Identifying and assessing risks in a simulated IT environment.

Day 2: Risk Assessment Tools and Techniques

- Steps for risk identification, evaluation, and prioritization.
- Qualitative vs. quantitative risk analysis methods.
- Developing risk matrices and scoring models.
- Establishing mitigation and response strategies.
- Practical session: Building a comprehensive technology risk register.

Day 3: Principles of IT Auditing

- Overview of IT audit concepts, objectives, and scope.
- Types of audits: operational, security, and compliance audits.
- Risk-based approach to IT auditing.
- Key components of an effective IT control framework.
- Workshop: Designing an IT audit plan for a business system.

Day 4: Conducting the IT Audit

- Planning and executing fieldwork for IT audits.
- Techniques for evidence collection and validation.
- Using automated auditing and data analytics tools.
- Assessing cybersecurity and access control systems.
- Case exercise: Performing a mock audit and identifying key findings.

Day 5: Reporting, Follow-up, and Continuous Improvement

- Writing clear and actionable IT audit reports.
- Communicating audit results to management and stakeholders.
- Follow-up and remediation tracking processes.
- Integrating IT audit insights into enterprise risk management.
- Final workshop: Case study on system failure caused by poor risk control.



Why Attend This Course? Wins & Losses!

- Gain an in-depth understanding of technology risk management and IT audit integration.
- Strengthen the ability to identify and mitigate technology-related risks.
- Improve compliance with international IT governance standards.
- Enhance the organization’s cybersecurity posture and system resilience.
- Learn how to perform data-driven IT audits using modern tools.
- Support better decision-making through structured audit reporting.
- Increase transparency and accountability in IT operations.
- Build readiness for professional certifications in risk and audit domains.

Conclusion

The Technology Risk Management and IT Audit course equips participants with the knowledge and skills to manage and audit complex IT environments effectively.It combines governance, risk management, and auditing principles into one comprehensive framework, helping organizations reduce vulnerabilities, strengthen controls, and enhance business continuity.

By mastering these concepts, participants will be able to design sustainable risk management and audit strategies that ensure system integrity, compliance, and trust — essential pillars for success in today’s digital enterprise landscape.

