

TECHNOLOGY RISK MANAGEMENT AND IT AUDIT



GENTEX[®]
TRAINING CENTER



Introduction

Technology Risk Management and IT Audit Training Course prepares professionals to control technology exposure and provide independent assurance over it. Digital operations now carry most organisational risk, yet technology risk and audit often sit apart from each other. This programme connects them. It covers IT risk assessment, control design, audit planning, testing techniques, and reporting to audit committees. Furthermore, it aligns practice with COBIT, ISO 27001, ITIL, and the three-lines model. In addition, participants plan and execute a technology audit from scoping to findings. As a result, they can give management and boards reliable assurance over critical systems.

Technology Risk Management and IT Audit Course Objectives

- Apply COBIT governance and management objectives to IT risk.
- Manage technology risk across cyber, resilience, third-party, and change.
- Apply ISO 27001 and NIST guidance to control design.
- Plan risk-based IT audits with clear scope and criteria.
- Conduct IT general controls testing for access, change, and operations.
- Audit application controls, interfaces, and data integrity.
- Assess cloud, outsourcing, and third-party technology risk.
- Evaluate business continuity and disaster recovery readiness.
- Report audit findings with ratings, root causes, and recommendations.
- Track remediation and verify closure of IT audit issues.



Course Methodology

This course combines expert presentations, control walkthroughs, and applied audit simulation. Participants conduct a risk assessment for a technology environment, design an IT audit programme, and test sample controls against evidence. In addition, findings drafting exercises sharpen report writing. Workpapers, control matrices, and peer review support immediate workplace application.

Who Should Take This Course

- IT auditors and internal audit technology specialists.
- Technology risk and IT compliance managers.
- Information security and resilience officers.
- IT governance and control professionals.
- Audit committee support staff and assurance leads.

Technology Risk Management and IT Audit Course Outlines

Day 1: Technology Risk and Governance Foundations

- Technology risk taxonomy: cyber, availability, change, third party.
- COBIT governance and management objectives.
- Three-lines model applied to technology.
- IT risk appetite and tolerance statements.
- ISO 27001 and NIST CSF control alignment.
- IT risk registers and ownership models.

LEARN BOLD. LEAD BEYOND

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com



- Case study: a technology failure and its audit lessons.

Day 2: IT Audit Planning and Scoping

- Risk-based audit universe and annual planning.
- Scoping, objectives, and audit criteria setting.
- Understanding the IT environment and process flows.
- Control frameworks and control matrices.
- Sampling approaches and evidence standards.
- Workpaper documentation requirements.
- Workshop: designing an IT audit programme.

Day 3: IT General Controls Testing

- Access management controls and privileged access review.
- Change management controls and release approval.
- IT operations controls: backup, batch, monitoring.
- Segregation of duties in systems and roles.
- Database and infrastructure control testing.
- Evidence collection and conclusion development.
- Exercise: testing IT general controls.

Day 4: Application, Data, and Third-Party Assurance

- Application controls: input, processing, output.
- Interface and data integrity testing.
- Cloud, hosting, and outsourcing risk assessment.
- Third-party assurance reports and reliance decisions.



LEARN BOLD. LEAD BEYOND

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com



- Business continuity and disaster recovery testing.
- Cybersecurity control assessment basics.
- Simulation: a third-party risk review.

Day 5: Findings, Reporting, and Remediation

- Writing findings: condition, criteria, cause, effect.
- Risk rating methodologies and severity scales.
- Root cause analysis for control failures.
- Reporting to management and audit committees.
- Remediation tracking and verification of closure.
- Continuous auditing and data analytics techniques.
- Action planning for technology assurance.

Conclusion

By successfully completing the Technology Risk Management and IT Audit Training Course, participants will have acquired the knowledge to assess technology risk, plan risk-based IT audits, test general and application controls, and report findings that drive remediation. They will understand how COBIT, ISO 27001, and the three-lines model structure reliable assurance over critical systems. As a result, they can strengthen technology control environments. Gentex Training Center delivers this programme with practical workpapers participants apply directly.

FAQs for the Technology Risk Management and IT Audit course





Q1 What is the "Technology Risk Management and IT Audit" course about?

It combines technology risk management with independent IT audit practice. The course covers IT risk assessment, COBIT and ISO 27001 control alignment, risk-based audit planning, general and application control testing, third-party assurance, and findings reporting, so assurance over technology is both practical and reliable.

Q2 What are the key benefits of the "Technology Risk Management and IT Audit" course?

Participants gain the ability to find control weaknesses before they cause incidents. The course improves audit planning efficiency through risk-based scoping, sharpens findings that management actually acts on, strengthens third-party and cloud oversight, and gives audit committees confidence in technology assurance coverage.

Q3 What skills will I gain from the "Technology Risk Management and IT Audit" course?

Participants develop technology risk assessment and control design, IT audit planning and scoping, IT general and application control testing, and findings reporting and remediation tracking. These four skills form the core capability set the course reinforces through its simulation.



Q4 What tools, methods, or standards are covered in the "Technology Risk Management and IT Audit" course?

The course covers COBIT governance and management objectives, the ISO 27001 control framework, the NIST Cybersecurity Framework, ITIL service management practices, the three-lines model, risk-based audit universe planning, control matrices, IT general controls for access, change and operations, application control testing, interface and data integrity testing, SOC report reliance for third-party assurance, business continuity and disaster recovery testing, and finding structures using condition, criteria, cause and effect.

Q5 How is the "Technology Risk Management and IT Audit" course applied in real-world practice?

Professionals apply it by maintaining IT risk registers, building annual risk-based audit plans, and testing privileged access, change approval, and backup routines against evidence. They also review third-party assurance reports, rate findings by severity, agree remediation dates with system owners, and verify closure in follow-up reviews.