

COMPREHENSIVE COURSE IN TECHNOLOGY AUDITING



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TRAINING CENTER



Introduction

Comprehensive Course in Technology Auditing Training Course prepares auditors to examine technology environments from governance through to configuration detail. Participants work through technology audit foundations and governance, IT general controls, application and interface controls, infrastructure, network and database auditing, cybersecurity audit, cloud and third-party assurance, data analytics and continuous auditing, and reporting as one connected discipline. The programme links the technology risk an organisation carries with the audit evidence that shows whether it is controlled. As a result, learners gain a repeatable, defensible technology audit method. Furthermore, the course strengthens technical judgement, evidence quality, and remediation reporting.

Comprehensive Course in Technology Auditing Course Objectives

- Apply the IIA standards and COBIT to technology audit work.
- Assess IT governance, strategy, and organisational structure.
- Audit IT general controls: access, change, and operations.
- Audit application controls and interface controls.
- Audit infrastructure, networks, operating systems, and databases.
- Apply cybersecurity audit techniques and control frameworks.
- Audit cloud services and third-party technology arrangements.
- Apply CAAT and data analytics to technology audit evidence.
- Apply continuous auditing and monitoring concepts.
- Write technology audit findings, reporting, and follow-up.

Course Methodology

- Interactive sessions built on technology audit case studies.

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- Workshops on ITGC testing, application control review, and cyber audit.
- Group exercises on access reviews, change testing, and analytics routines.
- Hands-on practice with audit programmes, CAAT tools, and configuration reviews.
- Simulation of an IT audit exit meeting and a cloud vendor review.
- Facilitator coaching and peer review on personal technology audit plans.

Who Should Take This Course

- IT auditors, technology assurance, and internal audit professionals.
- Information security and cybersecurity auditors.
- IT governance, risk, and compliance managers.
- Database, infrastructure, and systems administrators supporting audits.
- Internal auditors covering technology and digital controls.
- Consultants advising on technology audit and assurance programmes.

Comprehensive Course in Technology Auditing Course Outlines

Day 1: Technology Audit Foundations and Governance

- The technology audit role and professional standards.
- The IIA Global Technology Audit Guides and COBIT.
- IT governance structures, strategy, and organisational alignment.
- IT risk assessment and building the technology audit universe.
- Board and audit committee expectations for technology assurance.
- Auditor competencies for technical environments.
- Case discussion: an audit that missed a critical system risk.





Day 2: IT General Controls and Applications

- Access controls: user provisioning, privileged access, and reviews.
- Change management controls and release and patch management.
- IT operations: job scheduling, backups, and incident handling.
- Application controls: input, processing, output, and interfaces.
- Segregation of duties in systems and roles.
- Testing ITGCs and evaluating control effectiveness.
- Workshop: designing an ITGC audit programme.

Day 3: Infrastructure, Networks, and Databases

- Network, operating system, and infrastructure auditing.
- Database auditing, configuration review, and data integrity.
- Vulnerability management and patch assurance.
- Virtualisation, data centre, and resilience review.
- Identity and access management and privileged account review.
- Logging, monitoring, and security operations review.
- Exercise: auditing privileged access and logging controls.

Day 4: Cybersecurity, Cloud, and Data Analytics

- Cybersecurity audit against NIST CSF and ISO/IEC 27001.
- Incident response and security operations audit.
- Cloud service models and shared responsibility.
- Auditing cloud configuration, tenancy, and data residency.
- Third-party and vendor technology assurance and SOC reports.

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- CAAT, analytics, and continuous auditing concepts.
- Simulation: reviewing a cloud vendor and running an analytics test.

Day 5: Reporting, Follow-Up, and Assurance Integration

- Structuring technology findings with root cause analysis.
- Technical language translated for management and the board.
- Reporting, ratings, and management responses.
- Remediation planning, ownership, and verification.
- Integrating technology assurance with the wider audit plan.
- Quality assurance and skills development for technology audit.
- Capstone: presenting a technology audit engagement and report.

Conclusion

By successfully completing Comprehensive Course in Technology Auditing, participants will gain a practical command of technology audit governance, IT general and application controls, infrastructure, network and database auditing, cybersecurity audit, cloud and third-party assurance, data analytics, and reporting. They will acquire skills in ITGC testing, configuration and access review, analytics routines, and technology findings development that strengthen digital assurance. Gentex Training Center designs the programme to help auditors examine technology with confidence.

FAQs





Q1 What is the "Comprehensive Course in Technology Auditing" course about?

It prepares auditors to examine technology environments from governance through to configuration detail. The course spans technology audit foundations and governance, IT general controls and applications, infrastructure, networks and databases, cybersecurity, cloud and data analytics, and reporting, follow-up and assurance integration.

Q2 What are the key benefits of the "Comprehensive Course in Technology Auditing" course?

You gain a repeatable, defensible technology audit method that connects technology risk with the evidence that shows whether it is controlled. The course improves ITGC and application testing, strengthens configuration, access and database audit technique, sharpens cyber and cloud assurance, and gives you findings and reporting practice that drives remediation.

Q3 What skills will I gain from the "Comprehensive Course in Technology Auditing" course?

You will develop four core skills: technology audit planning using the IIA standards and COBIT, IT general and application control testing with access and change review, infrastructure, database and cybersecurity audit technique, and data analytics with cloud and third-party assurance and reporting.



Q4 What tools, methods, or standards are covered in the "Comprehensive Course in Technology Auditing" course?

The course covers the IIA International Standards and Global Technology Audit Guides, the COBIT framework, IT governance structures and strategy and organisational alignment, IT risk assessment and the technology audit universe, board and audit committee expectations, access controls covering user provisioning, privileged access and reviews, change management and release and patch management, IT operations covering job scheduling, backups and incident handling, application controls for input, processing, output and interfaces, segregation of duties in systems and roles, ITGC testing and control effectiveness evaluation, network, operating system and infrastructure auditing, database auditing and configuration review and data integrity, vulnerability management and patch assurance, virtualisation and data centre and resilience review, identity and access management and privileged account review, logging, monitoring and security operations review, cybersecurity audit against the NIST Cybersecurity Framework and ISO/IEC 27001, incident response and security operations audit, cloud service models and shared responsibility, cloud configuration, tenancy and data residency auditing, third-party and vendor technology assurance and SOC reports, computer-assisted audit techniques (CAAT) and analytics and continuous auditing, technology findings with root cause analysis, translating technical language for management and the board, reporting, ratings and management responses, remediation planning and ownership and verification, integration of technology assurance with the wider audit plan, and quality assurance and skills development for technology audit.



Q5 How is the "Comprehensive Course in Technology Auditing" course applied in real-world practice?

Participants apply it to real work such as designing an ITGC audit programme, auditing privileged access and logging controls, reviewing a database configuration, assessing a cloud vendor through SOC reports, running an analytics routine over access data, and drafting technology findings for an audit committee. The same methods support continuous auditing and remediation verification.