# Technology Auditing Foundation

*Sharm El-Sheikh (Egypt)*

*26 - 30 October 2025*

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# Technology Auditing Foundation

## Introduction

As digital transformation accelerates, the need for robust technology auditing has never been more critical. This course is designed to empower professionals with the advanced skills required to conduct thorough technology audits in today's rapidly evolving digital landscape. Participants will learn how to evaluate information technology systems, ensure compliance, maintain data integrity, and optimize operational efficiency. Through practical experience, participants will gain the knowledge to assess digital infrastructures, identify vulnerabilities, and recommend technology solutions that enhance security and performance. By aligning with industry standards and frameworks like COBIT, ISO, and NIST, this course ensures a comprehensive understanding of technology auditing practices tailored for modern technological challenges.

## Course Objectives

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

- Grasp the fundamentals of technology auditing and its significance in the modern digital era.
- Evaluate and assess information technology systems, cybersecurity measures, and technology infrastructures.
- Identify potential risks, vulnerabilities, and inefficiencies within digital environments.
- Utilize advanced technology audit services and techniques to conduct detailed audits of technology systems.
- Offer actionable recommendations to improve compliance, security, and operational performance within technology infrastructures.
- Implement leading frameworks such as COBIT, ISO 27001, and NIST in the technology audit process.
- Stay updated on emerging trends in technology auditing, including the integration of AI, cloud computing, and blockchain.

## Course Outlines

### Day 1: Foundations of Technology Auditing

- Introduction to technology audit and its key objectives.
- Key components and goals of a technology audit.
- The role of technology auditors in modern digital environments.
- Overview of essential industry standards and frameworks: COBIT, ISO 27001, and NIST.

### Day 2: Risk Management and Information Security Auditing

- Identifying and assessing risks in information technology systems.
- Techniques for auditing cybersecurity measures effectively.

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- Audit technology solutions for risk management and mitigation.
- Audit planning: Establishing scope, objectives, and methodologies.
- Case Study: Analyzing real-world cybersecurity failures.

## Day 3: Auditing Emerging Technologies

- The impact of AI, machine learning, and blockchain on technology auditing.
- Auditing cloud computing environments and understanding infrastructure vulnerabilities.
- Auditing IoT and edge computing infrastructures.
- Tools and techniques for auditing emerging technologies in the digital landscape.

## Day 4: Compliance, Data Privacy, and Legal Considerations

- Understanding legal and regulatory requirements e.g., GDPR, HIPAA.
- Data privacy audits: Techniques for ensuring protection and compliance.
- Ensuring compliance in technology infrastructures.
- Case Study: Data privacy auditing in large organizations.

## Day 5: Reporting, Recommendations, and Continuous Improvement

- Best practices for audit reporting: Ensuring clear, actionable findings.
- Formulating recommendations to improve technology systems and compliance.
- Fostering continuous improvement in technology auditing practices.
- Future trends in technology auditing and potential career pathways.

## Why Attend This Course: Wins & Losses!

Not joining this course means missing out on the opportunity to develop critical skills in technology auditing that are increasingly demanded in today⍰s tech-driven world. Key benefits include:

- Mastering the essentials of auditing information technology systems and understanding their importance in ensuring compliance and security.
- Gaining hands-on experience with advanced technology services and audit technology solutions to effectively evaluate complex digital infrastructures.
- Learning to implement industry-leading frameworks such as COBIT, ISO, and NIST, which are integral to conducting thorough technology audits.
- Staying informed about emerging trends like cloud computing, AI, and blockchain, which are revolutionizing the way audits are conducted.
- Developing a solid foundation in information technology auditing that will help you assess risks, identify inefficiencies, and optimize technology systems.

## Conclusion

By the end of this course, you will have acquired the technology audit skills needed to evaluate and improve the effectiveness of your organization⍰s digital infrastructure. Whether you are looking to optimize performance, enhance security, or ensure compliance, this course will provide you with the tools and frameworks to achieve those goals.

Don⍰t miss the opportunity to stay ahead of the curve in the rapidly evolving world of technology auditing. By

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mastering the latest audit technology solutions and emerging technologies, you will be well-positioned to drive success in your career and contribute to your organization's digital transformation.

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