Cybersecurity Audit

Duration: 2 Days
Method: Instructor-Led Training (ILT) | Live Online Training

Certificate: Cybersecurity Audit

Course Description

This course provides participants with the knowledge needed to excel in cybersecurity audits. It provides security professionals with an understanding of the audit process, and IT risk professionals with an understanding of cyber-related risk and mitigating controls.

Target Audience

This course is intended for:

- Audit/Assurance Professionals,
- IT Risk Professionals,
- Professionals who possess a fundamental understanding of cybersecurity concepts and prior audit experience,
- Individuals looking to upskill.

Prerequisites

To attend this course, candidates should have:

- Possess a fundamental understanding of cybersecurity concepts and prior audit experience

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OR

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- Completed or attained one of the following:
  - *Cybersecurity Fundamentals* Certificate or Course
  - *Certified Information Systems Auditor®* (*CISA*) Certification or Course

Tel: 876-978-1107 / 876-978-1486
WhatsApp: 876-978-9353
E-Mail: training@RWTTS.com | **Website:** www.RWTTS.com

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Course Objectives

Upon successful completion of this course, attendees will be able to:

- Define the roles and responsibilities of a cybersecurity auditor.
- Understand security frameworks to identify best practices.
- Assess the threats with the help of vulnerability management tools.
- Explain all aspects of cybersecurity governance.
- Manage enterprise identity and information access.
- Recall the definitions of cybersecurity processes and components related to cybersecurity operations.
- Define threat and vulnerability management.
- Build and deploy secure authorization processes.
- Describe the concepts of firewall, wireless and network security technologies in reducing the risk of cyber-attack.

Course Topics

Module 1—Introduction

- Digital Asset Protection
- Lines of Defence
- Role of Audit
- Audit Objectives
- Audit Scope

Module 2—Cybersecurity Governance

- Cybersecurity Roles and Responsibilities
- Security Frameworks
- Security Organization Goals & Objectives
- Cybersecurity Policy and Standards
- Cyber and Legal/ Regulatory Requirements
- Information Asset Classification
- Cybersecurity Insurance
- Cybersecurity Risk Assessment
- Cybersecurity Awareness Training & Education
- Social Media – Risk and Control
- Third-Party Assessment
- Service Providers
- Supply Chain Risk Management
- Performance Measurement

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Course Topics *Continued*

Module 3—Cybersecurity Operations
- Concepts and Definitions
- Threat and Vulnerability Management
- Enterprise Identity and Access Management
- Configuration Management / Asset management
- Change Management
- Patch Management
- Network Security
- Build and Deploy/Secure Authorization Process for Information Technology
- Incident Management
- Client Endpoint Protection
- Application Security
- Data Backup and Recovery
- Security Compliance
- Cryptography

Module 4—Cybersecurity Technology Topics
- Firewall and Network Security technologies
- Security Incident & Event Management (SIEM)
- Wireless Technology
- Cloud Computing
- Mobile Security
- Internet of Things (IoT)
- Virtualization Security
- Industrial Control Systems (ICS)

ACTIVITIES INCLUDED