

# Cybersecurity Audit Certificate

**Duration: 2 Days**

*It's not just the high cost to an organization in the event of a breach, but the inevitability of an attack that makes cybersecurity critical. With the increasing number of cyberthreats, it is becoming critical for the audit plan in every organization to include cybersecurity. As a result, auditors are increasingly being required to audit cybersecurity processes, policies and tools to provide assurance that their enterprise has appropriate controls in place. Vulnerabilities in cybersecurity can pose serious risks to the entire organization—making the need for IT auditors well-versed in cybersecurity audit greater than ever.*

*ISACA's new Cybersecurity Audit Certificate Program provides audit/assurance professionals 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.*

## Audience

The Cybersecurity Audit Certificate Program provides audit/assurance professionals 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 and specifically:

- IT audit professionals and enterprises who need additional guidance on auditing cybersecurity,
- Security professionals who need an understanding of the audit process,
- Risk and assurance professionals who need in-depth knowledge of cyber-related risk and mitigating controls.

## Objectives

After this two-days session, attendees will be able to:

- Understand security frameworks to identify best practices,
- Define threat and vulnerability management,

- Assess threats with the help of vulnerability management tools,
- Build and deploy secure authorization processes,
- Explain all aspects of cybersecurity governance,
- Distinguish between firewall and network security technologies,
- Enhance asset, configuration, change and patch management practices,
- Manage enterprise identity and information access,
- Identify application security controls,
- Identify cyber and legal regulatory requirements to aid in compliance assessments,
- Identify weaknesses in cloud strategies and controls,
- Perform cybersecurity and third-party risk assessments,
- Identify the benefits and risks of containerization.

## Course Syllabus

### 1. Welcome & Introduction

### 2. Module 1: Introduction

- Digital Asset Protection,
- Lines of Defense,
- Role of Audit,
- Audit Objectives,
- Audit Scope.

### 3. 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

### 4. 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,



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- Client Endpoint Protection,
  - Application Security,
  - Data Backup and Recovery,
  - Security Compliance,
  - Cryptography.
- 5. 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).
- 6. Closing and questions**

## Fees include:

- Training accredited by ISACA, delivered by an accredited trainer for the Cybersecurity Audit Certificate domains
- Official ISACA Cybersecurity Audit Manual provided in electronic format to participants
- Course workbook including all the slides presented during the course delivery
- Voucher allowing to take the exam during the next 12 months in a PSI exam center. (optional)