Cybersecurity for Public Financial Systems Training Course

Professional Development Training Course Outline

Category	Public Financial Management & Budgeting	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s digital economy, cybersecurity in public financial systems has become a critical priority to ensure data integrity, protect sensitive information, and safeguard financial operations. Governments and public institutions are increasingly vulnerable to cyber threats, ransomware attacks, phishing, and financial fraud. Cybersecurity for Public Financial Systems Training Course equips professionals with advanced skills in cyber resilience, risk management, digital forensics, cloud security, and compliance to secure financial systems and protect public resources.

This program integrates global best practices, hands-on simulations, and real-world case studies to empower participants with the ability to design, implement, and manage robust cybersecurity frameworks. By combining policy, governance, and technical measures, this training ensures participants are well-prepared to mitigate cyber risks, strengthen public trust, and foster sustainable digital transformation in financial management.

Programme Curriculum

Cybersecurity for Public Financial Systems Training Course

Introduction

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Course Objectives

1. Strengthen cybersecurity governance frameworks for public financial systems.
2. Identify and mitigate cyber threats, phishing, and malware targeting financial operations.
3. Apply cyber risk management strategies aligned with global standards.
4. Enhance data protection, encryption, and identity management in financial platforms.
5. Implement compliance with GDPR, ISO 27001, and financial regulations.
6. Analyze cyber threat intelligence for proactive defense.
7. Design and deploy cyber incident response plans.
8. Strengthen cloud security and blockchain security measures for financial systems.
9. Conduct digital forensics and fraud detection in financial transactions.
10. Protect against insider threats and supply chain vulnerabilities.
11. Build cyber resilience frameworks for continuity of financial services.
12. Apply AI and machine learning in cybersecurity threat detection.
13. Foster capacity building and awareness in cybersecurity culture.

Target Audience

1. Government financial officers
2. Central bank IT teams
3. Auditors and compliance professionals
4. Cybersecurity specialists
5. Risk management officers
6. Public sector accountants
7. Digital finance project managers
8. Regulators and policy makers

Course Duration: 10 days

Course Modules

Module 1: Fundamentals of Cybersecurity in Public Finance

- Importance of cybersecurity in financial systems
- Key cyber threats in government finance
- Cybersecurity governance frameworks
- Risk landscape in public financial systems
- Emerging trends in financial cybercrime
- **Case Study: Cyber attack on a national treasury system**

Module 2: Cyber Risk Management and Governance

- Frameworks for managing cyber risks
- Regulatory compliance (ISO 27001, GDPR, NIST)
- Cyber governance policies in public finance
- Risk assessment and prioritization techniques
- Crisis communication in cyber incidents
- **Case Study: Implementation of cyber risk management in central banks**

Module 3: Data Protection and Encryption in Financial Systems

- Encryption standards and practices
- Data integrity and confidentiality controls
- Access management and authentication
- Information security in digital transactions
- Preventing financial data leaks
- **Case Study: Data breach in a public pension fund system**

Module 4: Cyber Threat Intelligence and Analysis

- Understanding cyber threat intelligence (CTI)
- Tools for monitoring and analysis
- Threat modeling for financial systems
- Integrating CTI into financial cybersecurity strategy
- Sharing intelligence across agencies
- **Case Study: Use of CTI in combating financial phishing campaigns**

Module 5: Incident Response and Crisis Management

- Steps in cyber incident response
- Crisis management strategies
- Communication during financial cyber attacks
- Business continuity planning
- Incident recovery best practices
- **Case Study: Ransomware attack response in a financial ministry**

Module 6: Cloud Security for Public Financial Systems

- Cloud adoption in financial systems
- Security risks in cloud environments
- Multi-factor authentication and access control
- Encryption in cloud-based finance applications
- Ensuring compliance in cloud services
- **Case Study: Cloud migration of government financial systems**

Module 7: Blockchain and Financial Cybersecurity

- Blockchain technology in public finance
- Cybersecurity risks in blockchain systems
- Smart contracts and vulnerabilities
- Ensuring secure blockchain transactions
- Regulatory implications of blockchain in finance
- **Case Study: Blockchain use in government procurement systems**

Module 8: Digital Forensics and Financial Fraud Detection

- Basics of digital forensics in finance
- Tools for forensic investigations
- Detecting anomalies in financial transactions
- Fraud prevention mechanisms
- Role of AI in fraud detection
- **Case Study: Forensic investigation of embezzlement in a public agency**

Module 9: Insider Threats and Cybersecurity in Finance

- Identifying insider threats
- Access controls and privilege management

- Behavioral monitoring tools
- Human factor in cybersecurity breaches
- Policies for managing insider risks
- **Case Study: Insider fraud in a public financial authority**

Module 10: Supply Chain Cybersecurity in Finance

- Cyber risks in financial supply chains
- Vendor risk assessments
- Secure procurement processes
- Third-party monitoring
- Building resilient supply chains
- **Case Study: Cyber compromise through a financial software vendor**

Module 11: Financial System Cyber Resilience

- Building resilience frameworks
- Disaster recovery planning
- Financial system redundancy
- Testing resilience in cyber drills
- Long-term resilience strategies
- **Case Study: Cyber resilience in a national revenue authority**

Module 12: Artificial Intelligence in Cybersecurity

- AI applications in financial threat detection
- Machine learning algorithms for fraud detection
- Predictive analytics in cyber defense
- Automation of incident response
- AI limitations and challenges
- **Case Study: AI-driven fraud detection in public banking systems**

Module 13: Cybersecurity Awareness and Training Programs

- Importance of staff training in cybersecurity
- Awareness campaigns for financial institutions
- Building cybersecurity culture
- Simulation exercises and phishing tests
- Continuous learning in cyber defense
- **Case Study: Awareness training in a public audit office**

Module 14: Compliance and Legal Frameworks in Cybersecurity

- International cybersecurity regulations
- National cybersecurity laws for financial systems
- GDPR and public financial institutions
- Reporting obligations in cyber incidents
- Role of regulators in compliance enforcement
- **Case Study: Compliance audit in a government finance ministry**

Module 15: Future Trends in Cybersecurity for Finance

- Quantum computing and finance cybersecurity
- Zero Trust architecture in financial systems
- Digital identity and decentralized finance (DeFi)
- Cybersecurity in fintech-government collaborations

- Preparing for evolving cyber threats
- **Case Study: Future-proofing financial cybersecurity strategies**

Training Methodology

- Interactive lectures and expert presentations
- Hands-on simulations and real-world exercises
- Case study analysis and group discussions
- Workshops with cybersecurity tools and technologies
- Role-playing and scenario-based learning
- Continuous assessment and feedback

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Ready to enroll or request a customized program? Book online or contact us:

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