Training Course on Cybersecurity for Central Banks and Financial Infrastructure

Professional Development Training Course Outline

Category	Banking Institute	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In an era dominated by digitization and complex financial ecosystems, cybersecurity for central banks and financial infrastructure has become a global imperative. The ever-increasing cyber threats, such as ransomware, phishing attacks, and supply chain vulnerabilities, target critical financial institutions, posing significant risks to national and international economies. Training Course on Cybersecurity for Central Banks and Financial Infrastructure is designed to empower financial professionals, IT security teams, and policy architects with actionable insights and resilient frameworks to safeguard critical financial systems.

This course is structured to provide hands-on and strategic cybersecurity education tailored to the unique needs of central banking authorities, financial regulators, and key fintech stakeholders. Through a blend of interactive modules, real-life case studies, and cutting-edge tools, participants will gain an in-depth understanding of threat intelligence, incident response planning, regulatory compliance, digital forensics, and proactive security governance.

Programme Curriculum

Training Course on Cybersecurity for Central Banks and Financial Infrastructure

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Course Objectives

1. Understand core cybersecurity principles relevant to financial institutions.
2. Identify and assess cyber risk management frameworks.
3. Explore threat intelligence sharing and collaborative defense models.
4. Strengthen knowledge on regulatory compliance and data protection laws.
5. Learn advanced incident detection and response techniques.
6. Analyze real-world cyberattacks on financial systems.
7. Develop disaster recovery and business continuity plans.
8. Apply penetration testing and vulnerability assessment strategies.
9. Implement Zero Trust Architecture (ZTA) in banking systems.
10. Leverage AI and machine learning for predictive threat analysis.
11. Build a cybersecurity governance framework for central banks.
12. Understand cloud security and digital transformation risks.
13. Examine cross-border cybercrime trends and mitigation tactics.

Target Audience

1. Central Bank IT Officers
2. Financial Infrastructure Security Professionals
3. Cybersecurity Auditors
4. Policy Makers in Financial Regulation
5. Risk Management Consultants
6. Data Protection Officers
7. Fintech Executives
8. Law Enforcement & Cybercrime Units

Course Duration: 5 days

Course Modules

Module 1: Introduction to Cybersecurity in Financial Systems

- Overview of the cyber threat landscape in finance
- Key terminologies and principles
- Role of cybersecurity in economic stability
- Overview of regulatory standards (e.g., SWIFT CSP, ISO 27001)
- Key components of cyber risk in central banking
- **Case Study**: 2016 Bangladesh Bank Heist

Module 2: Threat Intelligence & Cyber Risk Management

- Threat intelligence lifecycle and sharing
- Types of cyber threats in financial systems
- Cyber risk identification and quantification
- Risk mitigation strategies
- Integration of AI-driven threat detection
- **Case Study**: European Central Bank Cyber Threat Assessment

Module 3: Regulatory Compliance & Legal Frameworks

- Overview of GDPR, PSD2, and local compliance laws
- Cybersecurity and financial regulation
- Data privacy and cross-border regulations
- Compliance audit checklist for central banks
- Enforcement and penalties for non-compliance
- **Case Study**: Data Breach at Capital One and Legal Ramifications

Module 4: Incident Response and Crisis Management

- Incident response lifecycle
- Establishing a CERT team
- Crisis communication plans
- Real-time response and forensic collection
- Post-incident reporting and root cause analysis
- **Case Study**: Federal Reserve's Handling of Simulated Cyber Attack

Module 5: Cybersecurity Architecture and Infrastructure Security

- Zero Trust Model in banking systems
- Endpoint security and encryption techniques
- Secure network design principles
- Cloud security best practices
- Access control and identity management
- **Case Study**: JPMorgan Chase Infrastructure Upgrade Post-Breach

Module 6: Cybersecurity Governance and Strategy

- Policy frameworks for central banks
- Roles and responsibilities of CISOs and Boards
- Strategic planning and budgeting for cybersecurity
- Creating a culture of cybersecurity awareness
- KPIs for governance effectiveness
- **Case Study**: Bank of England’s Cyber Governance Framework

Module 7: Emerging Technologies and Cyber Threats

- Role of AI, ML, and blockchain in cybersecurity
- Deepfakes and misinformation in financial attacks
- IoT vulnerabilities in fintech systems
- Quantum computing implications
- Advanced persistent threats (APT) and nation-state actors
- **Case Study**: Fintech App Exploitation Using AI-generated Code

Module 8: Business Continuity and Recovery Planning

- Business impact analysis (BIA)
- Developing a disaster recovery plan
- Cyber insurance in financial sectors
- Redundant systems and backups
- Testing and simulation drills
- **Case Study**: Recovery Strategy After Ransomware Attack on Financial Clearinghouse

Training Methodology

- Interactive expert-led presentations
- Case-based scenario analysis

- Hands-on technical labs and workshops
- Group exercises and simulations
- Access to tools, templates, and post-training resources

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000

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

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com