Banking Security Operations Training Course

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 today’s rapidly evolving financial ecosystem, Banking Security Operations has become a critical pillar in safeguarding financial institutions against cyber threats, fraud risks, data breaches, insider threats, and digital vulnerabilities. With the rise of digital banking, fintech integration, cloud computing, and AI-driven financial services, banks must adopt robust security frameworks, real-time monitoring systems, and proactive risk mitigation strategies. Banking Security Operations Training Course equips professionals with cutting-edge knowledge in Security Operations Centers (SOC), threat intelligence, fraud detection, cybersecurity governance, and compliance management, ensuring resilience in an increasingly complex threat landscape.

This comprehensive training focuses on advanced banking security operations, regulatory compliance, cyber resilience, digital risk management, and incident response strategies. Participants will gain practical insights into security analytics, SIEM tools, identity and access management (IAM), anti-money laundering (AML) controls, and financial crime prevention techniques. Through real-world case studies, simulations, and scenario-based learning, this course empowers banking professionals to strengthen enterprise security posture, enhance operational efficiency, and ensure regulatory compliance in global financial markets.

Programme Curriculum

Banking Security Operations Training Course

Introduction

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Course Duration

5 days

Course Objectives

1. Master Banking Cybersecurity Frameworks & Risk Management Strategies
2. Implement Security Operations Center (SOC) Optimization Techniques
3. Analyze Real-Time Threat Intelligence & Fraud Detection Systems
4. Strengthen Digital Banking Security & Data Protection Mechanisms
5. Apply RegTech & Compliance Automation in Banking Security
6. Enhance Incident Response & Cyber Resilience Planning
7. Utilize AI & Machine Learning in Fraud Prevention
8. Develop Identity & Access Management (IAM) Best Practices
9. Monitor SIEM Tools & Security Analytics Dashboards
10. Mitigate Insider Threats & Operational Risks
11. Strengthen Anti-Money Laundering (AML) & Financial Crime Controls
12. Ensure Cloud Security & API Security in Banking Systems
13. Align with Global Banking Regulations & Cybersecurity Standards

Target Audience

1. Banking Security & Risk Management Professionals
2. Cybersecurity Analysts & SOC Teams
3. Compliance & Regulatory Officers
4. IT Security Managers & Network Administrators
5. Fraud Detection & AML Specialists
6. Digital Banking & Fintech Professionals
7. Internal Auditors & Operational Risk Officers
8. Senior Banking Executives & Decision Makers

Course Modules

Module 1: Foundations of Banking Security Operations

- Overview of Banking Security Architecture & Frameworks
- Key Cyber Threats in Financial Institutions
- Security Governance & Policy Development
- Risk-Based Security Approaches
- Regulatory Landscape & Compliance Standards
  Case Study: Analysis of a major banking cyber breach and lessons learned

Module 2: Security Operations Center (SOC) Management

- SOC Structure & Operational Models
- Real-Time Monitoring & Threat Detection
- Incident Logging & Escalation Procedures
- Security Metrics & KPIs
- SOC Automation & Optimization
  Case Study: Building an efficient SOC for a mid-sized bank

Module 3: Cyber Threat Intelligence & Risk Analytics

- Threat Intelligence Lifecycle
- Data-Driven Risk Assessment
- Predictive Analytics in Banking Security
- Fraud Pattern Recognition
- Threat Hunting Techniques
  Case Study: Detecting coordinated cyber-attacks using analytics

Module 4: Fraud Detection & Financial Crime Prevention

- AML Systems & Fraud Detection Tools
- Transaction Monitoring Techniques
- Behavioral Analytics in Fraud Prevention
- Digital Payment Fraud Risks
- Regulatory Reporting Requirements
  Case Study: Preventing mobile banking fraud attacks

Module 5: Identity & Access Management (IAM)

- Authentication & Authorization Mechanisms
- Multi-Factor Authentication (MFA)
- Privileged Access Management (PAM)
- User Lifecycle Management
- Zero Trust Security Model
  Case Study: Implementing IAM to prevent insider breaches

Module 6: Incident Response & Cyber Resilience

- Incident Response Planning & Frameworks
- Cyber Crisis Management
- Business Continuity & Disaster Recovery
- Digital Forensics & Investigation
- Post-Incident Reporting & Improvement
  Case Study: Responding to ransomware attack in a bank

Module 7: Cloud & Digital Banking Security

- Cloud Security Risks & Controls
- API Security in Open Banking
- Mobile Banking Security Challenges
- Data Encryption & Protection Strategies

- Third-Party Risk Management
  Case Study: Securing cloud-based banking infrastructure

Module 8: Compliance, Governance & Emerging Technologies

- Global Banking Security Regulations
- RegTech & Compliance Automation
- AI & Machine Learning in Security Operations
- Blockchain Security Implications
- Future Trends in Banking Security
  Case Study: Using AI to enhance compliance monitoring

Training Methodology

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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
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