FinTech Security, Blockchain & Cryptocurrency Fraud Prevention Training Course



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4100 € (Per Person)

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Course Introduction / Overview:

This comprehensive training course is designed to provide financial services and technology professionals with the specialized knowledge and skills required to secure FinTech systems. The rapid growth of FinTech has brought new security challenges, particularly with the adoption of blockchain, cryptocurrencies, and mobile payments. This program goes beyond traditional banking security to focus on the unique threats and vulnerabilities of a digital-first financial landscape. Participants will learn how to secure blockchain platforms, identify and prevent cryptocurrency-related fraud, and implement robust security controls for mobile financial applications. We will cover key topics like smart contract security, decentralized finance (DeFi) risks, and forensic analysis of digital transactions. Drawing from the academic research of renowned authors like Andreas M. Antonopoulos, a leading expert on cryptocurrency and blockchain, and his foundational book "Mastering Bitcoin," this program provides a strategic and practical framework for safeguarding your FinTech operations. This course at BIG BEN Training Center will empower you to protect financial innovation from modern cyber threats.

Target Audience / This training course is suitable for:

- Financial services IT professionals.
- FinTech security specialists.
- Compliance and risk officers.
- Fraud prevention analysts.
- Blockchain developers.
- Cybersecurity professionals.
- IT auditors in the financial sector.

Target Sectors and Industries:

- FinTech and financial technology.
- Banking and traditional finance.
- Cryptocurrency and blockchain companies.
- E-commerce and payments.
- Venture capital and investment firms.
- Government agencies and equivalents.
- Managed security service providers.

Target Organizations Departments:

- Information Security.
- FinTech Operations.
- Risk Management and Compliance.
- Fraud Prevention.
- IT Audit.
- Blockchain Development.
- Payments and Transaction Services.

Course Offerings:

By the end of this course, the participants will have able to:

- Secure blockchain and cryptocurrency systems.
- Detect and prevent financial fraud.
- Implement robust security for mobile payments.
- Analyze smart contract vulnerabilities.
- Manage risks in decentralized finance (DeFi).
- Conduct forensic analysis of digital transactions.
- Develop a comprehensive FinTech security strategy.

Course Methodology:

This training course at BIG BEN Training Center uses a hands-on and case-study-driven methodology. The program includes a series of simulated attack scenarios on a virtualized FinTech platform. Participants will engage in hands-on activities, such as analyzing a blockchain transaction for fraudulent activity and identifying vulnerabilities in a smart contract. The course emphasizes a proactive and a practical mindset. It teaches participants how to not only respond to threats but also how to build a secure-by-design approach for new FinTech products. The instructor provides expert guidance and feedback throughout the labs, ensuring that you develop the critical thinking and problem-solving skills required for high-staking financial roles. This approach ensures the knowledge and skills gained are directly applicable to protecting financial innovation.

Course Agenda (Course Units):

Unit One: The FinTech Threat Landscape

- The evolution of FinTech and its security implications.
- Unique threats to digital financial systems.
- Common attacks (e.g., wallet compromises, smart contract exploits).
- The importance of a holistic security approach.
- Regulatory and compliance challenges.
- Risk assessment for FinTech products.
- Case study: a decentralized finance exploit.

Unit Two: Blockchain and Cryptocurrency Security

- How blockchain works.
- Public vs. private blockchains.
- Securing cryptocurrency wallets and exchanges.
- Consensus mechanisms and their security.
- Smart contract security and common vulnerabilities.
- Transaction monitoring and analysis.
- Practical lab: a smart contract vulnerability analysis.

Unit Three: Fraud Prevention in a Digital World

- Types of financial fraud (e.g., chargeback fraud, account takeover).
- Machine learning for fraud detection.
- Behavioral analytics.
- Implementing a robust fraud prevention system.
- Forensic analysis of digital transactions.
- Managing payment gateway security.
- Case study: an online fraud scenario.

Unit Four: Securing Mobile and Cloud FinTech

- Security for mobile financial applications.
- Secure API development.
- Securing data in the cloud.
- Identity and access management for FinTech.
- DevSecOps for continuous security.
- The role of secure coding practices.
- Practical lab: securing a mobile payment application.

Unit Five: Regulatory Compliance and Future Trends

- Global FinTech security regulations (e.g., PSD2, CCPA).
- Auditing a FinTech security program.
- The role of AI and machine learning in fraud.
- The future of FinTech security.
- Quantum computing threats.
- Final project: a comprehensive FinTech security plan.
- Emerging threats.
- Frequently Asked Questions:

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

With the rise of decentralized finance platforms that operate without a central authority, who is ultimately responsible for securing the system and recovering user funds in the event of a catastrophic security breach?

What unique qualities does this course offer compared to other courses?

This course stands out by providing a unique and vital focus on the security challenges of the financial technology sector. Unlike general cybersecurity programs, this training addresses the distinct vulnerabilities and compliance requirements of FinTech, including specialized topics like blockchain and cryptocurrency security. The curriculum is built around a practical, hands-on approach. It teaches you how to not only identify threats but also to develop a strategic framework for protecting financial data and preventing fraud. The emphasis on real-world case studies and practical labs gives you a direct, actionable understanding of how to apply security principles to a dynamic and high-stakes environment. This course is for professionals who want to stay at the forefront of financial innovation and ensure its security.