



Strategic Communication Networks for Banking & Finance Training Course

20 - 24 Apr 2026



Kuala Lumpur



5200 € (Per Person)

Ref: #NO4701_511765



Course Introduction / Overview:

This comprehensive training course is designed to provide a deep dive into the critical intersection of communication networks and the financial sector. In an era where digital transformation is paramount, understanding the intricate architecture and security protocols of communication networks is not just a technical skill, it is a strategic imperative. This course goes beyond basic networking concepts, focusing specifically on the unique demands and regulatory landscape of banking, finance, and investment firms. Participants will explore the principles of secure data transmission, high-frequency trading networks, and the integration of emerging technologies like blockchain and cloud-based systems. We will delve into key topics such as network resilience, disaster recovery planning, and the implementation of robust cybersecurity measures to combat financial cyber threats. Inspired by foundational texts like Andrew S. Tanenbaum's Computer Networks and the work of experts in financial technology, this program at BIG BEN Training Center provides a holistic view. It merges theoretical knowledge with practical applications. The curriculum is built to address the challenges of maintaining network integrity, ensuring compliance with strict financial regulations, and supporting the speed and reliability required for modern financial transactions. This course is for professionals seeking to master the complexities of financial network infrastructure.

Target Audience / This training course is suitable for:



- IT professionals and network administrators in the financial sector.
- Cybersecurity analysts and specialists.
- Risk management and compliance officers.
- Banking and financial operations managers.
- Technology and innovation managers.
- System architects and engineers.
- Senior executives and decision-makers in financial institutions.

Target Sectors and Industries:

- Banking and financial services.
- Investment and asset management firms.
- Insurance and reinsurance companies.
- Fintech and payment service providers.
- Government agencies and regulatory bodies.
- Auditing and consulting firms specializing in finance.

Target Organizations Departments:

- Information Technology (IT) and Network Operations.
- Cybersecurity and Information Security.
- Risk Management and Compliance.
- Financial Operations and Trading.
- Audit and Internal Control.
- Business Continuity and Disaster Recovery.
- Corporate Strategy and Innovation.

Course Offerings:

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



- Design and implement secure communication networks for financial institutions.
- Analyze and mitigate risks associated with network vulnerabilities and cyber threats.
- Apply best practices for ensuring network compliance with financial regulations.
- Optimize network performance for high-frequency trading and large data transfers.
- Develop effective disaster recovery and business continuity plans for network infrastructure.
- Evaluate and integrate new network technologies like SDN and cloud networking.
- Master the principles of network architecture for robust and resilient financial systems.

Course Methodology:

This training course at BIG BEN Training Center employs a highly interactive and practical methodology. The goal is to provide participants with not only theoretical knowledge, but also the hands-on skills necessary to excel in the complex world of financial networks. The course integrates a variety of teaching techniques, including detailed lectures, group discussions, and real-world case studies based on actual financial network incidents and successes. We will engage in practical exercises where participants can apply their knowledge of network configuration, security protocols, and performance tuning. Collaborative problem-solving sessions will be a key component, allowing for peer-to-peer learning and the exchange of insights on managing network challenges in a regulated environment. Participants will receive constructive feedback throughout the course on their work and contributions, helping to solidify their understanding. This methodology ensures that every aspect of the curriculum is relevant and directly applicable to the daily responsibilities of professionals in the financial sector. It provides a comprehensive learning experience that combines rigorous academic content with practical, job-oriented skills development.



Course Agenda (Course Units):

Unit One: Foundational Principles of Financial Communication Networks

- The architecture of banking and financial networks.
- Network protocols and their role in financial data transmission.
- The concept of network segmentation for security.
- Regulatory frameworks and their impact on network design.
- Fundamentals of network resilience and high availability.
- Case study in a major financial network outage.
- Best practices for network cabling and physical security.

Unit Two: Network Security and Threat Mitigation

- Common cyber threats to financial networks.
- Implementation of firewalls and intrusion detection systems.
- Encryption protocols for securing financial transactions.
- Access control models and identity management.
- Vulnerability assessment and penetration testing.
- The role of blockchain in secure financial communication.
- Understanding DDoS attacks and mitigation strategies.

Unit Three: Network Performance and High-Frequency Trading



- Optimizing network latency for HFT systems.
- The architecture of exchange and trading networks.
- Monitoring tools and techniques for network performance.
- Bandwidth management and traffic shaping.
- Quality of Service (QoS) implementation in financial networks.
- Impact of virtualization on network performance.
- Analyzing network bottlenecks in real-time.

Unit Four: Cloud and Hybrid Network Architectures

- Migrating financial services to the cloud.
- Designing secure hybrid cloud networks.
- The role of Software-Defined Networking (SDN) in finance.
- Network functions virtualization (NFV) in banking.
- Managing data sovereignty in global cloud environments.
- Secure connectivity solutions for remote access.
- Compliance with considerations for cloud-based financial services.

Unit Five: Business Continuity and Future Trends

- Developing network disaster recovery plans.
- Implementing failover and backup systems.
- Incident response and post-mortem analysis.
- The impact of IoT on financial networks.
- Emerging technologies like quantum computing and its network implications.
- Future trends in financial network security and design.
- Final case study: Designing a resilient and secure network.

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:

Given the rapid evolution of quantum computing, how might the principles of network cryptography and security for financial data need to fundamentally change in the next decade to remain secure?

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



This course stands apart by its singular focus on the financial and banking sector, making it more than a generic networking curriculum. It directly addresses the unique challenges of a highly regulated, security-sensitive, and performance-critical industry. Rather than just teaching network basics, it dives into the specific needs of financial institutions, from managing high-frequency trading data to ensuring compliance with regulations like GDPR and PCI DSS. The curriculum is built on real-world examples and case studies that highlight the stakes involved when network integrity is compromised. Our methodology emphasizes practical application, with participants learning how to design and secure networks, not just theoretically, but with the specific vulnerabilities and demands of the financial industry in mind. This includes a deep exploration of cybersecurity, not as a separate topic, but as an integrated component of network architecture. The course provides a blend of strategic insight and technical expertise, ensuring that participants can not only manage their current network infrastructure, but also plan for the future with confidence and skill.