Cybersecurity Risk Management in Banking and Finance Training Course

09 - 13 Nov 2026

Lisbon

4500 € (Per Person)

Ref: #BI7587_32072

Course Introduction / Overview:

The banking and finance sector stands as a primary target for sophisticated cyber-attacks, making robust cybersecurity risk management not just a technical necessity but a cornerstone of institutional stability and customer trust. This intensive training course is meticulously designed to equip professionals with the specialized knowledge and skills required to navigate the complex cyber threat landscape unique to financial institutions. We delve into the critical principles of identifying, assessing, mitigating, and responding to cyber risks in a highly regulated environment. Drawing upon foundational concepts from leading experts like Ross Anderson, author of the seminal work "Security Engineering: A Guide to Building Dependable Distributed Systems," this program moves beyond theory. Participants will explore practical applications of risk management frameworks, threat intelligence, and incident response strategies tailored for banking operations, digital payments, and investment services. BIG BEN Training Center provides a dynamic learning environment where participants will master the proactive defense mechanisms and strategic foresight needed to protect critical financial assets and ensure operational resilience against emerging cyber threats. This course is the definitive guide to building a formidable cybersecurity posture in the modern financial world.

Target Audience / This training course is suitable for:

- IT and Cybersecurity Professionals.
- Risk Management and Compliance Officers.
- Internal and External Auditors.
- Banking Operations Managers.
- Financial Analysts and Executives.
- Information Security Managers.
- Fraud Prevention Specialists.
- Regulatory and Legal Advisors in the financial sector.
- Fintech Innovators and Developers.

Target Sectors and Industries:

- Commercial and Retail Banking.
- Investment Banking and Asset Management.
- Insurance Companies.
- Credit Unions and Cooperative Banks.
- Financial Technology (Fintech) and Payment Processors.
- Securities and Brokerage Firms.
- Governmental financial regulatory bodies and central banks.
- Private Equity and Venture Capital Firms.

Target Organizations Departments:

- Information Technology (IT) and Information Security.
- Risk Management and Corporate Governance.
- Internal Audit and Compliance.
- Operations and Branch Management.
- Legal and Regulatory Affairs.
- Finance and Treasury.
- Product Development and Digital Strategy.
- Fraud and Financial Crime Prevention.

Course Offerings:

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

- Develop a comprehensive cybersecurity risk management framework tailored to financial institutions.
- Identify and analyze specific cyber threats and vulnerabilities prevalent in the banking sector.
- Implement effective risk mitigation strategies and security controls in line with industry best practices.
- Ensure compliance with key financial regulations such as PCI DSS, SOX, and GDPR.
- Conduct thorough cyber risk assessments and quantitative impact analysis.
- Design and execute an effective incident response and recovery plan for financial cyber events.
- Evaluate and manage third-party and supply chain cybersecurity risks.
- Integrate threat intelligence into a proactive cybersecurity defense strategy.
- Promote a strong cybersecurity culture throughout the organization.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, ensuring that participants can directly apply their learning to real-world challenges. This course moves beyond traditional lectures by incorporating a blended learning approach that emphasizes hands-on experience. A significant portion of the training is dedicated to analyzing detailed case studies of actual cyber-attacks on financial institutions, allowing participants to deconstruct threat vectors, response failures, and successful mitigation tactics. Group discussions and collaborative workshops encourage peer-to-peer learning and the exchange of diverse perspectives on risk management. Participants will engage in simulated cyber-attack scenarios and tabletop exercises, where they must work in teams to manage a crisis, make critical decisions under pressure, and formulate an effective incident response plan. Our expert instructors facilitate these sessions, providing continuous feedback and guiding participants through complex problem-solving processes. This focus on experiential learning ensures a deep and lasting understanding of cybersecurity risk management principles and their practical implementation in the banking and finance industry.

Course Agenda (Course Units):

Unit One: The Financial Sector Cyber Threat Landscape

- Introduction to Cybersecurity in Banking and Finance.
- Understanding the Unique Attack Surface of Financial Institutions.
- Key Cyber Threats: Malware, Phishing, Ransomware, and APTs.
- Analysis of High-Profile Financial Sector Cyber-Attacks.
- The Regulatory and Compliance Environment (SOX, GLBA, PCI DSS).
- Core Principles of Cybersecurity Risk Management.
- The Role of Governance, Risk, and Compliance (GRC) in Finance.

Unit Two: Cybersecurity Risk Assessment and Frameworks

- Introduction to Risk Management Frameworks (NIST, ISO 27001/27005).
- Conducting a Business Impact Analysis (BIA).
- Threat Modeling for Financial Applications and Systems.
- Vulnerability Assessment and Penetration Testing Methodologies.
- Quantitative vs. Qualitative Risk Analysis Techniques.
- Developing a Risk Register and Heat Map.
- Assessing and Managing Third-Party and Vendor Risk.

Unit Three: Implementing Security Controls and Mitigation Strategies

- Defense-in-Depth Architecture for Financial Institutions.
- Implementing Strong Access Control and Identity Management (IAM).
- Data Encryption, Data Loss Prevention (DLP), and Information Protection.
- Secure Software Development Lifecycle (SDLC) for Financial Applications.
- Network Security Controls: Firewalls, IDS/IPS, and Segmentation.
- Securing Cloud Environments and FinTech Integrations.
- Developing and Enforcing Cybersecurity Policies and Procedures.

Unit Four: Incident Response and Operational Resilience

- Building a Cyber Incident Response Team (CIRT).
- Developing a Comprehensive Incident Response Plan (IRP).
- Phases of Incident Response: Preparation, Detection, Containment, Eradication, and Recovery.
- Digital Forensics and Evidence Handling in a Financial Context.
- Business Continuity and Disaster Recovery Planning.
- Crisis Communication Strategies for Stakeholders and Regulators.
- Conducting Post-Incident Reviews and Lessons Learned Sessions.

Unit Five: Advanced Topics and Future of Financial Cybersecurity

- Leveraging Cyber Threat Intelligence (CTI) for Proactive Defense.
- The Role of Artificial Intelligence and Machine Learning in Cybersecurity.
- Securing Blockchain, Cryptocurrencies, and Digital Assets.
- Addressing Insider Threats and Fraud Prevention.
- Building a Strong Security Awareness and Training Culture.
- Cyber Insurance and Risk Transference Strategies.
- Future Trends and Emerging Threats in Financial Cybersecurity.

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 increasing integration of AI in financial services, how does the traditional cybersecurity risk management framework need to evolve to address AI-specific threats like model poisoning or adversarial attacks?

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

This course distinguishes itself by moving beyond generic cybersecurity principles to offer a deeply specialized curriculum tailored exclusively for the banking and finance sector. Unlike broader programs, every module, case study, and simulation is contextualized within the unique operational realities, regulatory pressures, and threat vectors faced by financial institutions. We focus on the practical application of knowledge, emphasizing how to build and manage a risk framework that satisfies auditors and regulators while genuinely protecting against sophisticated financial adversaries. The curriculum integrates critical topics often overlooked in generalist courses, such as securing payment systems, managing FinTech integration risks, and navigating the complexities of cross-border data protection laws. Furthermore, the course emphasizes strategic thinking over tool-specific training, equipping participants with the analytical and decision-making skills to adapt to the rapidly evolving threat landscape. The focus is on building resilient systems and a proactive security culture, ensuring that participants leave not just with technical knowledge, but with the strategic foresight required to lead cybersecurity initiatives within the high-stakes world of finance.

Course Introduction / Overview:

The banking and finance sector stands as a primary target for sophisticated cyber-attacks, making robust cybersecurity risk management not just a technical necessity but a cornerstone of institutional stability and customer trust. This intensive training course is meticulously designed to equip professionals with the specialized knowledge and skills required to navigate the complex cyber threat landscape unique to financial institutions. We delve into the critical principles of identifying, assessing, mitigating, and responding to cyber risks in a highly regulated environment. Drawing upon foundational concepts from leading experts like Ross Anderson, author of the seminal work "Security Engineering: A Guide to Building Dependable Distributed Systems," this program moves beyond theory. Participants will explore practical applications of risk management frameworks, threat intelligence, and incident response strategies tailored for banking operations, digital payments, and investment services. BIG BEN Training Center provides a dynamic learning environment where participants will master the proactive defense mechanisms and strategic foresight needed to protect critical financial assets and ensure operational resilience against emerging cyber threats. This course is the definitive guide to building a formidable cybersecurity posture in the modern financial world.

Target Audience / This training course is suitable for:

- IT and Cybersecurity Professionals.
- Risk Management and Compliance Officers.
- Internal and External Auditors.
- Banking Operations Managers.
- Financial Analysts and Executives.
- Information Security Managers.
- Fraud Prevention Specialists.
- Regulatory and Legal Advisors in the financial sector.
- Fintech Innovators and Developers.

Target Sectors and Industries:

- Commercial and Retail Banking.
- Investment Banking and Asset Management.
- Insurance Companies.
- Credit Unions and Cooperative Banks.
- Financial Technology (Fintech) and Payment Processors.
- Securities and Brokerage Firms.
- Governmental financial regulatory bodies and central banks.
- Private Equity and Venture Capital Firms.

Target Organizations Departments:

- Information Technology (IT) and Information Security.
- Risk Management and Corporate Governance.
- Internal Audit and Compliance.
- Operations and Branch Management.
- Legal and Regulatory Affairs.
- Finance and Treasury.
- Product Development and Digital Strategy.
- Fraud and Financial Crime Prevention.

Course Offerings:

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

- Develop a comprehensive cybersecurity risk management framework tailored to financial institutions.
- Identify and analyze specific cyber threats and vulnerabilities prevalent in the banking sector.
- Implement effective risk mitigation strategies and security controls in line with industry best practices.
- Ensure compliance with key financial regulations such as PCI DSS, SOX, and GDPR.
- Conduct thorough cyber risk assessments and quantitative impact analysis.
- Design and execute an effective incident response and recovery plan for financial cyber events.
- Evaluate and manage third-party and supply chain cybersecurity risks.
- Integrate threat intelligence into a proactive cybersecurity defense strategy.
- Promote a strong cybersecurity culture throughout the organization.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, practical, and highly interactive, ensuring that participants can directly apply their learning to real-world challenges. This course moves beyond traditional lectures by incorporating a blended learning approach that emphasizes hands-on experience. A significant portion of the training is dedicated to analyzing detailed case studies of actual cyber-attacks on financial institutions, allowing participants to deconstruct threat vectors, response failures, and successful mitigation tactics. Group discussions and collaborative workshops encourage peer-to-peer learning and the exchange of diverse perspectives on risk management. Participants will engage in simulated cyber-attack scenarios and tabletop exercises, where they must work in teams to manage a crisis, make critical decisions under pressure, and formulate an effective incident response plan. Our expert instructors facilitate these sessions, providing continuous feedback and guiding participants through complex problem-solving processes. This focus on experiential learning ensures a deep and lasting understanding of cybersecurity risk management principles and their practical implementation in the banking and finance industry.

Course Agenda (Course Units):

Unit One: The Financial Sector Cyber Threat Landscape

- Introduction to Cybersecurity in Banking and Finance.
- Understanding the Unique Attack Surface of Financial Institutions.
- Key Cyber Threats: Malware, Phishing, Ransomware, and APTs.
- Analysis of High-Profile Financial Sector Cyber-Attacks.
- The Regulatory and Compliance Environment (SOX, GLBA, PCI DSS).
- Core Principles of Cybersecurity Risk Management.
- The Role of Governance, Risk, and Compliance (GRC) in Finance.

Unit Two: Cybersecurity Risk Assessment and Frameworks

- Introduction to Risk Management Frameworks (NIST, ISO 27001/27005).
- Conducting a Business Impact Analysis (BIA).
- Threat Modeling for Financial Applications and Systems.
- Vulnerability Assessment and Penetration Testing Methodologies.
- Quantitative vs. Qualitative Risk Analysis Techniques.
- Developing a Risk Register and Heat Map.
- Assessing and Managing Third-Party and Vendor Risk.

Unit Three: Implementing Security Controls and Mitigation Strategies

- Defense-in-Depth Architecture for Financial Institutions.
- Implementing Strong Access Control and Identity Management (IAM).
- Data Encryption, Data Loss Prevention (DLP), and Information Protection.
- Secure Software Development Lifecycle (SDLC) for Financial Applications.
- Network Security Controls: Firewalls, IDS/IPS, and Segmentation.
- Securing Cloud Environments and FinTech Integrations.
- Developing and Enforcing Cybersecurity Policies and Procedures.

Unit Four: Incident Response and Operational Resilience

- Building a Cyber Incident Response Team (CIRT).
- Developing a Comprehensive Incident Response Plan (IRP).
- Phases of Incident Response: Preparation, Detection, Containment, Eradication, and Recovery.
- Digital Forensics and Evidence Handling in a Financial Context.
- Business Continuity and Disaster Recovery Planning.
- Crisis Communication Strategies for Stakeholders and Regulators.
- Conducting Post-Incident Reviews and Lessons Learned Sessions.

Unit Five: Advanced Topics and Future of Financial Cybersecurity

- Leveraging Cyber Threat Intelligence (CTI) for Proactive Defense.
- The Role of Artificial Intelligence and Machine Learning in Cybersecurity.
- Securing Blockchain, Cryptocurrencies, and Digital Assets.
- Addressing Insider Threats and Fraud Prevention.
- Building a Strong Security Awareness and Training Culture.
- Cyber Insurance and Risk Transference Strategies.
- Future Trends and Emerging Threats in Financial Cybersecurity.

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 increasing integration of AI in financial services, how does the traditional cybersecurity risk management framework need to evolve to address AI-specific threats like model poisoning or adversarial attacks?

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

This course distinguishes itself by moving beyond generic cybersecurity principles to offer a deeply specialized curriculum tailored exclusively for the banking and finance sector. Unlike broader programs, every module, case study, and simulation is contextualized within the unique operational realities, regulatory pressures, and threat vectors faced by financial institutions. We focus on the practical application of knowledge, emphasizing how to build and manage a risk framework that satisfies auditors and regulators while genuinely protecting against sophisticated financial adversaries. The curriculum integrates critical topics often overlooked in generalist courses, such as securing payment systems, managing FinTech integration risks, and navigating the complexities of cross-border data protection laws. Furthermore, the course emphasizes strategic thinking over tool-specific training, equipping participants with the analytical and decision-making skills to adapt to the rapidly evolving threat landscape. The focus is on building resilient systems and a proactive security culture, ensuring that participants leave not just with technical knowledge, but with the strategic foresight required to lead cybersecurity initiatives within the high-stakes world of finance.