

Certified Cybersecurity Specialist

OEM: Arcitura • Duration: 3 Days (24 hrs) • Code: ARC-CS

COURSE MODULES & TOPICS

Module 1: Fundamental Cybersecurity

- History of Asset Protection
- Cybersecurity Business and Technology Drivers
- Cybersecurity Goals and Benefits
- Risks and Challenges of Adopting Cybersecurity
- Cybersecurity Protection Characteristics and Functions
- Common Cyber Threat Terminology
- Cybersecurity Framework Components
- Digital Risk Assessment and Management
- Common Cybersecurity Industry Standards and Frameworks
- Cybersecurity and Machine Learning
- Cybersecurity and Artificial Intelligence
- Cybersecurity Resilience, Risk Assessment and Effectiveness Metrics

Module 2: Advanced Cybersecurity

- 15 Cybersecurity Mechanisms (including Honeypots, Biometric Scanners, Intrusion Detection, Malicious Code Analysis and User Behavior Analytics Systems)
- 9 Cybersecurity Monitoring Mechanisms (including Malware Monitors, Network Intrusion Monitors and Data Loss Protection Monitors)
- 13 Cybersecurity Processes (including Attack Surface Reduction, Continuous Vulnerability Management and Network Monitoring and Defense)
- Insider Threat Detection and Incident Response Management
- Cyber Threat Intelligence and Cyber Attack Motivations
- 13 Common Cyber Threats and Attacks (including Botnets, Tunneling and Remote Code Execution Attacks and 8 types of Malware)
- Insider Threats, Social Engineering and Phishing
- Advanced Persistent Threats (APTs)

Module 3: Cybersecurity Lab

- Reading Exercise 3.1: ENO Bank Background
- Lab Exercise 3.2: Data Breach
- Lab Exercise 3.3: Hidden Malware

- Optional Lab Exercise 3.4: Cybersecurity Processes
- Optional Lab Exercise 3.5: Cybersecurity Metrics
- Reading Exercise 3.6: ITI Background
- Lab Exercise 3.7: Ransomware
- Lab Exercise 3.8: Phishing
- Lab Exercise 3.9: Cybersecurity Processes
- Lab Exercise 3.10: Cybersecurity Metrics
- Reading Exercise 3.11: Auto-Mech Background
- Lab Exercise 3.12: Botnet and DoS
- Lab Exercise 3.13: Software Exploit and SQL Injection
- Optional Lab Exercise 3.14: Cybersecurity Processes
- Optional Lab Exercise 3.15: Cybersecurity Metrics
- Reading Exercise 3.16: Top Sector Financial (TSF) Background
- Lab Exercise 3.17: Malicious Insider
- is authored by a dedicated courseware development team
- has a self-test, accreditation exam and professional certification
- is available via two different eLearning platforms
- undergo a common development process
- are authored to be consistent in quality, structure and style
- share a common vocabulary and symbol notation
- are authored in collaboration with subject matter experts
- About Arcitura
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