



*Training Course:
Certified Cyber Security Specialist*

*30 September - 4 October 2024
Liverpool (UK)*

Training Course: Certified Cyber Security Specialist

Training Course code: IT234569 From: 30 September - 4 October 2024 Venue: Liverpool (UK) - Training Course Fees: 5775 € Euro

Introduction

This course will provide participants with in-depth knowledge and practical skills to plan, deliver and monitor IT/cybersecurity to internal and external clients encompassing a complete, conjoined set of disciplines in the areas of IT policies, Security-Operational-Run-Book, security/penetration testing, ethical hacking, and black hat hacking.

It will also cover WiFi security, Website security, human factors, cyber forensics, cybersecurity team management, Secure Operations Center SOC, and Computer Security Incident Response Team CSIRT infrastructures.

As part of the course, participants will conduct a risk assessment of two different deployments based on the ISO27001 to identify any direct, or indirect threats, security exposures, or potentials for vulnerabilities. Participants will also respond to an example of a security incident and identify the best practices which could be applied to secure their own organization and associated assets. All participants will be given copies of Run Books to deal with cyber extortions, Distributed Denial of Service DDoS/DoS, and forensic investigations.

Course Methodology of Certified Cyber Security Specialist

The course will include practical sessions, videos as well as live examples [e.g. Virus] and demonstrations of white and black hat hacking tools. All participants will also be provided with the latest research papers and articles.

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Course Objectives of Certified Cyber Security Specialist

By the end of the course, participants will be able to:

- Apply information security standards to their organization and its critical assets
- Identify the threats presented by viruses, malware, active code, and Active Persistent Threats APT and consider the different mitigating options
- Formulate and manage effective cybersecurity teams, and apply the Computer Security Incident Response Team CSIRT framework, tools, and capabilities to deliver cost-effective and robust solutions to protect the organization
- Use Neuro-Linguistic Programming NLP to deliver messages that will change the way employees work and think about security
- Examine the area of wireless security protocols, their security attributes, and their potential insecurities within the organization, and in public spaces
- Illustrate how penetration testing and ethical hacking enhance organizational security
- Evaluate and apply two of the most important aspects in the modern day of cyber-adversity: Open Source Intelligence OSINT and cyber threat intelligence

Target Audience of Certified Cyber Security Specialist

IT professionals, security professionals, auditors, site administrators, general management and anyone tasked with managing and protecting the integrity of the network infrastructure. This also includes anyone already familiar and involved with IT/cyber/digital security and seeking to build on their fundamental principles of security.

Target Competencies of Certified Cyber Security Specialist

- Information security management
 - Vulnerability assessment and management
 - Applying cybersecurity solutions
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- Developing IT policies and procedures
 - Cyber forensics
 - Ethical hacking and Black Hat hacking

Course Outline of Certified Cyber Security Specialist

Day 1:

- **Adapting to evolving standards**
 - Information security standards e.g. PCI-DSS/ISO27001
 - Documented tools:
 - ISO/IEC 27001
 - PAS 555
 - Control Objectives for Information and Related Technology COBIT
 - Future standards
 - ISO/IEC 2018
 - EU privacy regulations
 - Local and international government stipulations implicating access to private data

Day 2:

- **Principles of IT security**
 - Enterprise security
 - External defenses
 - Web filtering
 - Intruder Prevention Systems IPS
 - Intruder Detection Systems IDS
 - Firewalls
 - Secure code
 - Software Development Lifecycles SDL
 - Potential insecurities within developed applications
 - WiFi security protocols and attributes
 - Voice over IP VoIP security

- Governance Risk and Compliance GRC
- Security Incident Event Management SEIM applications
- Cloud security
- Third-party security and compliance

Day 3:

- Adopting cybersecurity measures
 - Employee perception of security through Neuro-Linguistic Programming NLP
 - Security education and awareness: techniques, systems, and methodologies
 - Penetration testing
 - Ethical hacking
 - Options to mitigate viruses, malware, active code threats and Active Persistent Threats APT
 - The Computer Incident Response Team CSIRT frameworks, tools, and capabilities
 - Incident first response: proven methodologies, tools, and systems
 - The science of applying robust digital forensics: applicable law, capabilities, and methodologies
 - Supervisory Controls and Data Acquisition SCADA; security requirements, processes, and methodologies
 - Abuse images: complying with local and international law

Day 4:

- Building cybersecurity teams
 - Creation and management of a Secure Operations Center SOC
 - Development of the Corporate Security Organization Framework
 - Formulation and deployment of a Computer Security Incident Response Team CSIRT
 - Bespoke Security Incident and Event System SIEM for the operational deployment
 - Risks associated with I/O Security e.g. USBs, CDs, other forms of media
 - Risks of Active Code Injection, and mitigation techniques

Day 5:

- Advanced cyber risks and tools
 - Cybercrime and the darknet/dark web: the world of the hackers/hacktivists
 - The underground of cyber criminality
 - Social engineering as a tool to test operational resilience
 - Open Source Intelligence OSINT
 - Cyber threat intelligence
 - Open source and commercial security tools
 - The operational use of encryption
 - Virtual private networks
- Steganography - Techniques used to hide hacking tools and malware on networks
 - Command-line and tools used to identify and extract dangerous files and contain malware and hacking applications
 - The 1-10-60 Rule to identify and contain dangerous hidden applications
 - Alternate Data Streams ADS and the threats they can pose under an NTFS environment
 - Leveraging ADS to hide undetectable malware within an operational network

Registration form on the Training Course: Certified Cyber Security Specialist

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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