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CAPITAL SOCIAL: 5.000.000. FCFA

CyberSec First Responder (CFR-310)

Référence : CFR-310 Niveau : Début Durée : 5 jours (35 h.)

Tarif: Nous Contacter Date: Juin Juillet Septembre Contact: +225 22469017 / 74622582

Objectifs

In this course, you will understand, assess and respond to security threats and operate a system and network security analysis platform. You will:

- Compare and contrast various threats and classify threat profile
- Explain the purpose and use of attack tools and technique
- Explain the purpose and use of post exploitation tools and tactic
- Explain the purpose and use of social engineering tactic
- Given a scenario, perform ongoing threat landscape research and use data to prepare for incident
- Explain the purpose and characteristics of various data source.

Given a scenario, use appropriate tools to analyze log

- Given a scenario, use regular expressions to parse log files and locate meaningful data
- Given a scenario, use Windows tools to analyze incidents
- Given a scenario, use Linux-based tools to analyze incidents
- Summarize methods and tools used for malware analysis
- Given a scenario, analyze common indicators of potential compromise
- Explain the importance of best practices in preparation for incident response
- Given a scenario, execute incident response process
- Explain the importance of concepts that are unique to forensic analysis
- Explain general mitigation methods and devices

Public

This course is designed primarily for cybersecurity practitioners preparing for or who currently perform job functions related to protecting information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation. It is ideal for those roles within federal contracting companies, and private sector firms who whose mission or strategic objectives require the execution of Defensive Cyber Operations (DCO) or DoD Information Network (DODIN) operation and incident handling. This course focuses on the knowledge, ability, and skills necessary to provide for the defense of those information systems in a cybersecurity context, including protection, detection, analysis, investigation, and response processes.



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In addition, the course ensures that all members of an IT team—regardless of size, rank or budget—understand their role in the cyber defense, incident response, and incident handling process.

Pré-requis

To ensure your success in this course, you should meet the following requirements:

- At least two years (recommended) of experience or education in computer network security technology, or a related field.
- The ability or curiosity to recognize information security vulnerabilities and threats in the context of risk management.
- Foundational knowledge of the concepts and operational framework of common assurance safeguards in network environments. Safeguards include, but are not limited to, firewalls, intrusion prevention systems, and VPNs.
- General knowledge of the concepts and operational framework of common assurance safeguards in computing environments. Safeguards include, but are not limited to, basic authentication and authorization, resource permissions, and anti-malware mechanisms.
- Foundation-level skills with some of the common operating systems for computing environments. Entry-level understanding of some of the common concepts for network environments, such as routing and switching.
- General or practical knowledge of major TCP/IP networking protocols, including, but not limited to, TCP, IP, UDP, DNS, HTTP, ARP, ICMP, and DHCP

Contenu du cours

Lesson 1: Assessment of Information Security Risks

Topic A: The Importance of Risk Management

Topic B: Assess Risk **Topic C**: Mitigate Risk

Topic D: Integrating Documentation into Risk Management

Lesson 2: Analyzing the Threat Landscape

Topic A: Classify Threats and Threat Profiles **Topic B:** Perform Ongoing Threat Research

Lesson 3: Computing and Network Environments: Analyzing Reconnaissance Threats

Topic A: Implementation of Threat Modeling **Topic B:** Reconnaissance: Assessing the Impact **Topic C:** Social Engineering: Assessing the Impact

Lesson 4: Analyzing Attacks on Computing and Network Environments



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Topic A:	System Hacking Attacks: Assessing the Impact
Topic B:	Web-Based Attacks: Assessing the Impact

Topic C: Malware: Assessing the Impact

Topic D: Hijacking and Impersonation Attacks: Assessing the Impact

Topic E: DoS Incidents: Assessing the Impact

Topic F: Threats to Mobile Security: Assessing the Impact **Topic G:** Threats to Cloud Security: Assessing the Impact

Lesson 5: Examining Post-Attack Techniques

Topic A: Examine Command and Control Techniques

Topic B: Examine Persistence Techniques

Topic C: Examine Lateral Movement and Pivoting Techniques

Topic D: Examine Data Exfiltration Techniques

Topic E: Examine Anti-Forensics Techniques

Lesson 6: Manage Vulnerabilities in the Organization

Topic A: Implement a Vulnerability Management Plan

Topic B: Examine Common Vulnerabilities

Topic C: Conduct Vulnerability Scans

Lesson 7: Evaluate Security by Implementing Penetration Testing

Topic A: Conduct Penetration Tests on Network Assets

Topic B: Follow Up on Penetration Testing

Lesson 8: Collecting Cybersecurity Intelligence

Topic A: Deployment of a Security Intelligence Collection and Analysis Platform

Topic B: Data Collection from Network-Based Intelligence Sources

Topic C: Data Collection from Host-Based Intelligence Sources

Lesson 9: Analyze Log Data

Topic A: Common Tools to Analyze Logs

Topic B: SIEM Tools for Analysis

Lesson 10: Performing Active Asset and Network Analysis

Topic A: Analyze Incidents using Windows-Based Tools

Topic B: Analyze Incidents using Linux-Based Tools

Topic C: Analyze Malware

Topic D: Analyze Indicators of Compromise

Lesson 11: Response to Cybersecurity Incidents

Topic A: Deployment of Incident Handling and Response Architecture

Topic B: Containment and Mitigation of Incidents

Topic C: Preparation for Forensic Investigation as a CSIRT



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Lesson 12: Investigating Cybersecurity Incidents

Topic A: Use a Forensic Investigation Plan

Topic B: Securely Collect and Analyze Electronic Evidence

Topic C: Follow Up on the Results of an Investigation