

CertNexus CyberSec First Responder (CFR)



Course Overview

The course introduces tools, tactics, and procedures to manage cybersecurity risks, identify various types of common threats, evaluate the organization's security, collect and analyze cybersecurity intelligence, and remediate and report incidents as they occur. This course provides a comprehensive methodology for individuals responsible for defending the cybersecurity of their organization..

This course covers network defense and incident response methods, tactics, and procedures that are in alignment with industry frameworks such as NIST 800-61r2 (Computer Security Incident Handling Guide), USCERT's National Cyber Incident Response Plan (NCIRP), and Presidential Policy Directive (PPD)-41 on Cyber Incident Coordination, NIST 800.171r2 (Protecting Controlled **Unclassified Information in Nonfederal** Systems and Organizations). It is ideal for candidates who have been tasked with the responsibility of monitoring and detecting security incidents in information systems and networks, and for executing standardized responses to such incidents. The course introduces tools, tactics, and procedures to manage cybersecurity risks, defend cybersecurity assets, identify various types of common threats, evaluate the organization's security, collect and analyze cybersecurity intelligence, and remediate and report incidents as they occur. This course provides a comprehensive methodology for individuals responsible for defending the cybersecurity of their organization.

Course Objectives

- 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
- Civen 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

Duration 5 Days

Credentials CFR-410

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Prerequisites

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

This course is designed to assist students in preparing for the CertNexus CyberSec First Responder (Exam CFR-310) certification examination. What you learn and practice in this course can be a significant part of your preparation.

In addition, this course and subsequent certification (CFR-310) meets all requirements for personnel requiring DoD directive 8570.01-M position certification baselines:

- CSSP Analyst
- CSSP Infrastructure Support
- CSSP Incident Responder
- CSSP Auditor

Target Audience

System Administrator

Network Administrator

Help Desk Technician

Information System Technician

Incident Responder

Incident Response Analyst

Cyber Crime Investigator

IT Auditor

Information Security and IT Auditor

Systems Analyst

Network Analyst

Incident Analyst

Security Analyst

Network Security Engineer

Information Assurance Analyst

Network Defense Technician

Network Administrator

Information Systems Security Engineer



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Course Outline

Lesson 1: Identifying the Need for Security in Your Software Projects

- Topic A: Identify Security Requirements and Expectations
- Topic B: Identify Factors That Undermine Software Security
- Topic C: Find Vulnerabilities in Your Software
- Topic D: Gather Intelligence on Vulnerabilities and Exploits

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

- 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

Lesson 12: Investigating Cybersecurity Incidents

Topic A: Use a Forensic Investigation Plan



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