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**CERTNEXUS**

# **CyberSec First Responder (CFR) Certification Training**

## **Course Overview**

This course covers network defense and incident response methods, tactics, and procedures are taught in alignment with industry frameworks such as NIST 800-61 r.2 (Computer Security Incident Handling), US-CERT's NCISP (National Cyber Incident Response Plan), and Presidential Policy Directive (PPD) 41 on Cyber Incident Coordination Policy. 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, identify various types of common threats, evaluate the organization's security, collect and analyze cybersecurity intelligence and remediation/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
- 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



# PhoenixTS

## Course Outline

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### Assessment of Information Security Risks

- The importance of risk management
- Assess risk
- Mitigate risk
- Integrating documentation into risk management

### Analyzing the Threat Landscape

- Classify threats and threat profiles
- Perform ongoing threat research

### Computing and Network Environments: Analyzing Reconnaissance Threats

- Implementation of threat modeling
- Reconnaissance: assessing the impact
- Social engineering: assessing the impact

### Analyzing Attacks on Computing and Network Environments

- System hacking attacks: assessing the impact
- Web-based attacks: assessing the impact
- Malware: assessing the impact
- Hijacking and impersonation attacks: assessing the impact
- DoS incidents: assessing the impact
- Threats to mobile security: assessing the impact
- Threats to cloud security: assessing the impact

### Examining Post-Attack Techniques

- Examine command and control techniques
- Examine persistence techniques
- Examine lateral movement and pivoting techniques
- Examine data ex-filtration techniques



- Examine anti-forensics techniques

## Manage Vulnerabilities in the Organization

- Implement a vulnerability management plan
- Examine common vulnerabilities
- Conduct vulnerability scans

## Evaluate Security by Implementing Penetration Testing

- Conduct penetration tests on network assets
- Follow up on penetration testing

## Collecting Cybersecurity Intelligence

- Deployment of a security intelligence collection and analysis platform
- Data collection from network-based intelligence sources
- Data collection from host-based intelligence sources

## Analyze Log Data

- Common tools to analyze logs
- Course content (cont.)
- SIEM tools for analysis

## Performing Active Asset and Network Analysis

- Analyze incidents using Windows-based tools
- Analyze incidents using Linux-based tools
- Analyze malware
- Analyze indicators of compromise

## Response to Cybersecurity Incidents

- Deployment of incident handling and response architecture
- Containment and mitigation of incidents
- Preparation for forensic investigation as a CSIRT



## Investigating Cybersecurity Incidents

- Use a forensic investigation plan
- Securely collect and analyze electronic evidence
- Follow up on the results of an investigation
- Appendix A: mapping course content to CyberSec First Responder (Exam CFR-310)
- Appendix B: regular expressions
- Appendix C: security resources
- Appendix D: U.S. Department of Defense operational security practices

## CertNexus CyberSec First Responder™ (CFR) Exam CFR-310

### Exam Details

- Exam: CFR-310
- Up to 100 Questions
- Types of Questions: Multiple choice and multiple response
- Passing Score: 70% or 71%, depending on exam form. Forms have been statistically equated.
- Test Duration: 120 minutes
- Test Delivery: Pearson VUE

Domain	% of Exam
Threats and Attacks	24%
Data Collection and Analysis	23%
Incident Response Methods, Tools, and Techniques	22%
The Incident Response Process	18%
Vulnerability Assessment	13%

## CFR Certification Training FAQs

### Who should attend this training?

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 whose mission or strategic objectives require the execution of Defensive Cyber Operations (DCO) or DoD Information



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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.

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.



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## Included in this **CyberSec First Responder (CFR) Certification Training**

- 5 days instructor-led training
- CyberSec First Responder (CFR) Certification Training training book
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class\*
- Tea, coffee and soda available throughout the day\*
- Freshly baked cookies every afternoon\*