



BULLETPROOF

Education Services

CyberSec First Responder: Threat Detection and Response

This course is designed for information assurance professionals who perform job functions related to the development, operation, management, and enforcement of security capabilities for systems and networks.

Length Days: 5 | **Length Hours: 40**

PREREQUISITES

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

- Recommended at least 2 years of experience in computer network security technology or a related field.
- Recognize information security vulnerabilities and threats in the context of risk management.
- Operate at a foundational level some of the common operating systems for computing environments.
- Foundational 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.
- Operate at a foundational level some of common concepts for network environments, such as routing and switching.
- 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 (virtual private networks).

You can obtain this level of skills and knowledge by taking the following courses or by passing the relevant exams:

CompTIA A+

CompTIA Network+

CompTIA Security+

TARGET AUDIENCE

This course is designed for information assurance professionals who perform job functions related to the development, operation, management, and enforcement of security capabilities for systems and networks.

COURSE OBJECTIVES

In this course, you will develop, operate, manage, and enforce security capabilities for systems and networks. You will:

- Assess information security risk in computing and network environments
- Create an information assurance lifecycle process
- Analyze threats to computing and network environments
- Design secure computing and network environments
- Operate secure computing and network environments
- Assess the security posture within a risk management framework
- Collect cybersecurity intelligence information
- Respond to cybersecurity incidents
- Investigate cybersecurity incidents
- Audit secure computing and network environments

COURSE OUTLINE

1 - ASSESSING INFORMATION SECURITY RISK

Topic A: Identify the Importance of Risk Management

Topic B: Assess Risk

Topic C: Mitigate Risk

Topic D: Integrate Documentation into Risk Management

2 - CREATING AN INFORMATION ASSURANCE LIFECYCLE PROCESS

Topic A: Evaluate Information Assurance Lifecycle Models

Topic B: Align Information Security Operations to the Information Assurance Lifecycle

Topic C: Align Information Assurance and Compliance Regulations

3 - ANALYZING THREATS TO COMPUTING AND NETWORK ENVIRONMENTS

Topic A: Identify Threat Analysis Models

Topic B: Assess the Impact of Reconnaissance Incidents

Topic C: Assess the Impact of Systems Hacking Attacks

Topic D: Assess the Impact of Malware

Topic E: Assess the Impact of Hijacking and Impersonation Attacks

Topic F: Assess the Impact of Denial of Service Incidents

Topic G: Assess the Impact of Threats to Mobile Infrastructure

Topic H: Assess the Impact of Threats to Cloud Infrastructures

4 - DESIGNING SECURE COMPUTING AND NETWORK ENVIRONMENTS

Topic A: Information Security Architecture Design Principles

Topic B: Design Access Control Mechanisms

Topic C: Design Cryptographic Security Controls

Topic D: Design Application Security

Topic E: Design Computing Systems Security

Topic F: Design Network Security

5 - OPERATING SECURE COMPUTING AND NETWORK ENVIRONMENTS

Topic A: Implement Change Management in Security Operations

Topic B: Implement Monitoring in Security Operations

Topic C: Test and Evaluate Information Assurance Architectures

6 - ASSESSING THE SECURITY POSTURE WITHIN A RISK MANAGEMENT FRAMEWORK

Topic A: Deploy a Vulnerability Assessment and Management Platform

Topic B: Conduct Vulnerability Assessments

Topic C: Conduct Penetration Tests on Network Assets

Topic D: Analyze and Report Penetration Test Results

7 - COLLECTING CYBERSECURITY INTELLIGENCE INFORMATION

Topic A: Deploy a Security Intelligence Collection and Analysis Platform

Topic B: Sources

8 - ANALYZING CYBERSECURITY INTELLIGENCE INFORMATION

Topic A: Analyze Security Intelligence to Address Incidents

Topic B: Incorporate Security Intelligence and Event Management

9 - RESPONDING TO CYBERSECURITY INCIDENTS

Topic A: Deploy an Incident Handling and Response Architecture

Topic B: Perform Real-Time Incident Handling Tasks

Topic C: Prepare for Forensic Investigation

10 - INVESTIGATING CYBERSECURITY INCIDENTS

Topic A: Create a Forensics Investigation Plan

Topic B: Securely Collect Electronic Evidence

Topic C: Identify the Who, Why, and How of an Incident

Topic D: Follow Up on the Results of an Investigation

11 - COMPUTING AND NETWORK ENVIRONMENTS

Topic A: Deploy a Systems and Processes Auditing Architecture

Topic B: Maintain a Deployable Audit Toolkit

Topic C: Perform Audits Geared Toward the Information Assurance Lifecycle