

CyberSec First Responder: Threat Detection and Response

Cursusduur: 5 Dagen Cursuscode: GK2180

Beschrijving:

This course covers the duties of those who are responsible for monitoring and detecting security incidents in information systems and networks, and for executing a proper response to such incidents. Depending on the size of the organization, this individual may act alone or may be a member of a computer security incident response team (CSIRT). The course introduces strategies, frameworks, methodologies, and tools to manage cybersecurity risks, identify various types of common threats, design and operate secure computing and networking environments, assess and audit the organization's security, collect, and analyze cybersecurity intelligence, and handle incidents as they occur. The course also covers closely related information assurance topics such as auditing and forensics to provide a sound basis for a comprehensive approach to security aimed toward those on the front lines of defense. In addition, this course can help students who are looking to fulfill DoD directive 8570.01 for information assurance (IA) training. This program is designed for personnel performing IA functions, establishing IA policies and implementing security measures and procedures for the Department of Defense and affiliated information systems and networks.

Doelgroep:

Cybersecurity practitioners who perform job functions related to protecting and defending information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation

Doelstelling:

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| ■ Assess information security risk in computing and network environments | ■ Collect cybersecurity intelligence information |
| ■ Create an information assurance lifecycle process | ■ Analyze collected intelligence to define actionable response |
| ■ Analyze threats to computing and network environments | ■ Respond to cybersecurity incidents |
| ■ Design secure computing and network environments | ■ Investigate cybersecurity incidents |
| ■ Operate secure computing and network environments | ■ Audit secure computing and network environments |
| ■ Assess the security posture within a risk management framework | |
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Vereiste kennis en vaardigheden:

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| ■ Cybersecurity Foundations | |
| ■ Understanding Networking Fundamentals | |
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Cursusinhoud:

1. Assessing Information Security Risk

- Identify the Importance of Risk Management
- Assess Risk
- Mitigate Risk

Integrate Documentation into Risk Management

2. Creating an Information Assurance Lifecycle Process

- Evaluate Information Assurance Lifecycle Models
- Align Information Security Operations to the Information Assurance Lifecycle

Align Information Assurance and Compliance Regulations

3. Analyzing Threats to Computing and Network Environments

- Identify Threat Analysis Models
- Assess the Impact of Reconnaissance Incidents
- Assess the Impact of Systems Hacking Attacks
- Assess the Impact of Malware
- Assess the Impact of Hijacking and Impersonation Attacks
- Assess the Impact of DoS Incidents
- Assess the Impact of Threats to Mobile Security

Assess the Impact of Threats to Cloud Security

4. Designing Secure Computing and Network Environments

- Information Security Architecture Design Principles
- Design Access Control Mechanisms
- Design Cryptographic Security Controls
- Design Application Security
- Design Computing Systems Security

Design Network Security

5. Operating Secure Computing and Network Environments

- Implement Change Management in Security Operations

Implement Monitoring in Security Operations

6. Assessing the Security Posture Within a Risk Management Framework

- Deploy a Vulnerability Management Platform
- Conduct Vulnerability Assessments
- Conduct Penetration Tests on Network Assets

Follow Up on Penetration Testing

7. Collecting Cybersecurity Intelligence Information

- Deploy a Security Intelligence Collection and Analysis Platform

Collect Data from Security Intelligence Sources

8. Analyzing Cybersecurity Intelligence Information

- Analyze Security Intelligence to Address Incidents

Use SIEM Tools for Analysis

9. Responding to Cybersecurity Incidents

- Deploy an Incident Handling and Response Architecture
- Perform Real-Time Incident Handling Tasks

Prepare for Forensic Investigation

10. Investigating Cybersecurity Incidents

- Create a Forensic Investigation Plan
- Securely Collect Electronic Evidence
- Identify the Who, Why, and How of an Incident

Follow Up on the Results of an Investigation

11. Auditing Secure Computing and Network Environments

- Deploy a Systems and Processes Auditing Architecture
- Prepare for Audits

Perform Audits Geared Toward the Information Assurance Lifecycle

Labs

- Lab 1: Implementing a Threat Assessment Model
- Lab 2: Examining Reconnaissance Incidents
- Lab 3: Assessing the Impact of System Hijacking Attempts
- Lab 4: Assessing the Impact of Malware
- Lab 5: Assessing the Impact of Hijacking and Impersonation attacks
- Lab 6: Assessing the Impact of DoS Incidents
- Lab 7: Assessing the Impact of Threats to Mobile Devices
- Lab 8: Designing Cryptographic Security Controls
- Lab 9: Designing Application Security
- Lab 10: Implementing Monitoring in Security Operations
- Lab 11: Deploying a Vulnerability Management Platform
- Lab 12: Conducting Vulnerability Assessments
- Lab 13: Conducting Penetration Testing on Network Assets
- Lab 14: Collecting and Analyzing Security Intelligence
- Lab 15: Collecting Security Intelligence Data
- Lab 16: Capturing and Analyzing Baseline Data

- Lab 17: Analyzing Security Intelligence
- Lab 18: Incorporating SIEMS into Security Intelligence Analysis
- Lab 19: Developing an Incidence Response System
- Lab 20: Securely Collecting Electronic Evidence
- Lab 21: Analyzing Forensic Evidence
- Lab 22: Preparing for an Audit
- Lab 23: Performing Audits

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

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