

CyberSec First Responder: Threat Detection and Response

Duration: 5 Days Course Code: GK2180

Overview:

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.

Target Audience:

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

Objectives:

- 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
- Analyze collected intelligence to define actionable response
- Respond to cybersecurity incidents
- Investigate cybersecurity incidents
- Audit secure computing and network environments

Prerequisites:

- Cybersecurity Foundations
- Understanding Networking Fundamentals

Head Office Tel.: +974 40316639

Content:

| Assessing Information Security Risk | Lab 1: Implementing a Threat Assessment Model | Lab 13: Conducting Penetration Testing on Network Assets |
|--|---|--|
| Identify the Importance of Risk Management | | |
| Assess RiskMitigate Risk | Lab 2: Examining Reconnaissance Incidents | Lab 14: Collecting and Analyzing Security |
| Integrate Documentation into Risk | Lab 2. Examining recommassance meldents | Intelligence |
| Management | | egeee |
| · · | Lab 3: Assessing the Impact of System | |
| 2. Creating an Information Assurance Lifecycle | Hijacking Attempts | Lab 15: Collecting Security Intelligence Data |
| Process | | |
| - | | |
| Evaluate Information Assurance Lifecycle | Lab 4: Assessing the Impact of Malware | Lab 16: Capturing and Analyzing Baseline |
| Models Align Information Security Operations to the | | Data |
| Information Assurance Lifecycle | Lab 5: Assessing the Impact of Hijacking and | |
| Align Information Assurance and | Impersonation attacks | Lab 17: Analyzing Security Intelligence |
| Compliance Regulations | ' ' | , , , , |
| | | |
| 3. Analyzing Threats to Computing and | Lab 6: Assessing the Impact of DoS Incidents | Lab 18: Incorporating SIEMS into Security |
| Network Environments | | Intelligence Analysis |
| | | |
| Identify Threat Analysis Models | Lab 7: Assessing the Impact of Threats to | |
| Assess the Impact of Reconnaissance | Mobile Devices | Lab 19: Developing an Incidence Response |
| Incidents | | System |
| Assess the Impact of Systems Hacking Attacks | Lab 8: Designing Cryptographic Security | |
| Assess the Impact of Malware | Controls | Lab 20: Securely Collecting Electronic |
| Assess the Impact of Hijacking and | Controls | Evidence |
| Impersonation Attacks | | |
| Assess the Impact of DoS Incidents | Lab 9: Designing Application Security | |
| Assess the Impact of Threats to Mobile | | Lab 21: Analyzing Forensic Evidence |
| Security | | |
| Assess the Impact of Threats to Cloud | Lab 10: Implementing Monitoring in Security | |
| Security | Operations | Lab 22: Preparing for an Audit |
| Designing Secure Computing and Network | | |
| Environments | Lab 11: Deploying a Vulnerability | Lab 23: Performing Audits |
| | Management Platform | _as _or or o |
| Information Security Architecture Design | J | |
| Principles | | |
| Design Access Control Mechanisms | Lab 12: Conducting Vulnerability | |
| Design Cryptographic Security Controls | Assessments | |
| 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 | | |
| O.A | | |
| 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

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

training@globalknowledge.qa

www.globalknowledge.com/en-qa/

Global Knowledge, Qatar Financial Center, Burj Doha, Level 21, P.O.Box 27110, West Bay, Doha, Qatar