

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

Content:

Assessing Information Security Risk Identify the Importance of Risk Management	Lab 1: Implementing a Threat Assessment Model	Lab 13: Conducting Penetration Testing on Network Assets
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Assess Risk		
Mitigate Risk	Lab 2: Examining Reconnaissance Incidents	Lab 14: Collecting and Analyzing Security
Integrate Documentation into Risk		Intelligence
Management		
	Lab 3: Assessing the Impact of System	
2. Creating an Information Assurance Lifecycle	Hijacking Attempts	Lab 15: Collecting Security Intelligence Data
Process	, injuriant grant pro	
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Evaluate Information Assurance Lifecycle	Lab 4: Assessing the Impact of Malware	Lab 16: Capturing and Analyzing Baseline
Models		Data
Align Information Security Operations to the		
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
	Lab 6. Assessing the impact of DoS incidents	· -
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	
		Lab 20, Coouraly Collecting Floatronia
Assess the Impact of Malware	Controls	Lab 20: Securely Collecting Electronic
Assess the Impact of Hijacking and		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 Security	Operations	Lab 22: Preparing for an Audit
Security	Operations	Lab 22. I Tepating for all Addit
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Designing Secure Computing and Network		
Environments	Lab 11: Deploying a Vulnerability	Lab 23: Performing Audits
	Management Platform	
Information Security Architecture Design		
Principles		
Design Access Control Mechanisms	Lab 12: Conducting Vulnerability	
Design Cryptographic Security Controls	Assessments	
Design Application Security	Accessificates	
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Design Computing Systems Security		
Design Network Security		
Operating Secure Computing and Network		
Environments		
Implement Change Management in Security		
Operations		
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Implement Monitoring in Security Operations		
Assessing the Security Posture Within a		
Risk Management Framework		
Deploy a Vulnerability Management Platform		
Conduct Vulnerability Assessments		
Conduct Vulnerability Assessments Conduct Penetration Tests on Network		
Assets		
Follow Up on Penetration Testing		
7. Collecting Cybersecurity Intelligence		
Information		

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 00 971 4 446 4987

training@globalknowledge.ae

www.globalknowledge.com/en-ae/

Global Knowledge, Dubai Knowledge Village, Block 2A, First Floor, Office F68, Dubai, UAE