Performing CyberOps Using Cisco Security Technologies

Duration: 5 Days **Course Code: CBRCOR** **Version: 1.1** **Delivery Method: Virtual Learning**

Overview:

The **Performing Cybersecurity Using Cisco Security Technologies (CBRCOR)** training guides you through cybersecurity operations fundamentals, methods, and automation. The knowledge you gain in this training will prepare you for the role of Information Security Analyst on a Security Operations Center (SOC) team. You will learn foundational concepts and their application in real-world scenarios, and how to leverage playbooks in formulating an Incident Response (IR). The training teaches you how to use automation for security using cloud platforms and a SecDevOps methodology. You will learn the techniques for detecting cyberattacks, analyzing threats, and making appropriate recommendations to improve cybersecurity.
This training prepares you for the 350-201 CBRCOR v1.2 exam. If passed, you earn the Cisco Certified Specialist – Cybersecurity Core certification and satisfy the core exam requirement for the Cisco Certified Cybersecurity Professional certification.
This training also earns you 40 Continuing Education (CE) credits toward recertification.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This class is intended for the following participants:
- Cybersecurity Engineers
- Cybersecurity Investigators
- Incident Managers
- Incident Responders
- Network Engineers
- SOC Analysts currently functioning at entry level with a minimum of 1 year of experience

Objectives:

- After this course participants should be able to:
- Describe the types of service coverage within a SOC and operational responsibilities associated with each
- Compare security operations considerations of cloud platforms
- Describe the general methodologies of SOC platforms development, management, and automation
- Describe asset segmentation, segregation, network segmentation, microsegmentation, and approaches to each, as part of asset controls and protections
- Describe Zero Trust and associated approaches, as part of asset controls and protections
- Perform incident investigations using Security Information and Event Management (SIEM) and/or security orchestration and automation (SOAR) in the SOC
- Use different types of core security technology platforms for security monitoring, investigation, and response
- Describe the DevOps and SecDevOps processes
- Describe the common data formats (e.g., JavaScript Object Notation (JSON), HTML, XML, and Comma-Separated Values (CSV))
- Describe API authentication mechanisms
- Analyze the approach and strategies of threat detection, during monitoring, investigation, and response
- Determine known Indicators of Compromise (IOCs) and Indicators of Attack (IOAs)
- Interpret the sequence of events during an attack based on analysis of traffic patterns
- Describe the different security tools and their limitations for network analysis (e.g., packet capture tools, traffic analysis tools, and network log analysis tools)
- Analyze anomalous user and entity behavior (UEBA)
- Perform proactive threat hunting following best practices

Prerequisites:

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Familiarity with UNIX/Linux shells (bash, csh) and shell commands
- Familiarity with the Splunk search and navigation functions
- Basic understanding of scripting using one or more of Python, JavaScript, PHP or similar

These skills can be found in the following Cisco Learning Offerings:

- Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)
- Implementing and Administering Cisco Solutions (CCNA)
- CBROPS - Understanding Cisco Cybersecurity Operations Fundamentals
- CCNA - Implementing and Administering Cisco Solutions

Testing and Certification

Recommended as preparation for the following exam:

- **350-201 CBRCOR** - Performing CyberOps Using Cisco Security Technologies Exam

Content:

Course Outline

- Understanding Risk Management and SOC Operations
- Understanding Analytical Processes and Playbooks
- Understanding Cloud Service Model Security Responsibilities
- Understanding Enterprise Environment Assets
- Understanding APIs
- Understanding SOC Development and Deployment Models
- Investigating Packet Captures, Logs, and Traffic Analysis
- Investigating Endpoint and Appliance Logs
- Implementing Threat Tuning
- Threat Research and Threat Intelligence Practices
- Performing Security Analytics and Reports in a SOC
- Malware Forensics Basics
- Threat Hunting Basics
- Performing Incident Investigation and Response

Lab Outline

- Explore Cisco XDR
- Explore Splunk Phantom Playbooks
- Evaluate Assets in a Typical Enterprise Environment
- Fix a Python API Script
- Create Bash Basic Scripts
- Examine Cisco Firepower Packet Captures and PCAP Analysis
- Validate an Attack and Determine the Incident Response
- Submit a Sample to Cisco Secure Malware Analytics for Analysis
- Endpoint-Based Attack Scenario Referencing MITRE ATTACK®
- Explore Cisco Firepower NGFW Access Control Policy and Snort Rules
- Investigate IOCs using Cisco XDR
- Explore the ThreatConnect Threat Intelligence Platform
- Track the TTPs of a Successful Attack Using a TIP
- Reverse Engineer Malware
- Perform Threat Hunting
- Conduct an Incident Response

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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