Performing CyberOps Using Cisco Security Technologies (CBRCOR)

Cisco

- **Nível:** Avançado
- **Duração:** 35h

Sobre o curso

The **Performing CyberOps Using Cisco Security Technologies (CBRCOR)** v1.0 course guides you through cybersecurity operations fundamentals, methods, and automation. The knowledge you gain in this course 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 course 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 course also earns you 40 Continuing Education (CE) credits towards recertification and prepares you for the **350-201 CBRCOR** core exam.

This course will help you:

- Gain an advanced understanding of the tasks involved for senior-level roles in a security operations center
- Configure common tools and platforms used by security operation teams via practical application
- Prepare you to respond like a hacker in real-life attack scenarios and submit recommendations to senior management
- Prepare for the **350-201 CBRCOR** core exam

Destinatários

Although there are no mandatory prerequisites, the course is particularly suited for the following audiences:

- Cybersecurity engineer
- Cybersecurity investigator
- Incident manager
- Incident responder
- Network engineer
- SOC analysts currently functioning at entry level with a minimum of 1 year of experience

Objetivos

After taking this course, you 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.
- Explain asset segmentation, segregation, network segmentation, micro-segmentation, 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.
- Explain the common data formats, for example, JavaScript Object Notation (JSON), HTML, XML, 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 (for example, packet capture tools, traffic analysis tools, network log analysis tools).
- Analyze anomalous user and entity behavior (UEBA).
- Perform proactive threat hunting following best practices.

Condições

Após a formação, é possível adquirir, o exame de certificação do parceiro oficial com 10% de desconto. Oferta válida até 6 meses após a conclusão do curso.

Pré-requisitos

Although there are no mandatory prerequisites, to fully benefit from this course, you should have the following knowledge:

- 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.

Recommended Cisco offering that may help you prepare for this course:

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

Programa

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

- Performing Incident Investigation and Response

Lab outline

- Explore Cisco SecureX Orchestration
- Explore Splunk Phantom Playbooks
- Examine Cisco Firepower Packet Captures and PCAP Analysis
- Validate an Attack and Determine the Incident Response
- Submit a Malicious File to Cisco Threat Grid for Analysis
- Endpoint-Based Attack Scenario Referencing MITRE ATTACK
- Evaluate Assets in a Typical Enterprise Environment
- Explore Cisco Firepower NGFW Access Control Policy and Snort Rules
- Investigate IOCs from Cisco Talos Blog Using Cisco SecureX
- Explore the ThreatConnect Threat Intelligence Platform
- Track the TTPs of a Successful Attack Using a TIP
- Query Cisco Umbrella Using Postman API Client

- Fix a Python API Script
- Create Bash Basic Scripts
- Reverse Engineer Malware
- Perform Threat Hunting
- Conduct an Incident Response