

# CBROPS - UNDERSTANDING CISCO CYBERSECURITY OPERATIONS FUNDAMENTALS V1.1

Course Code: 100826

The **Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)** course teaches you security concepts, common network and application operations and attacks, and the types of data needed to investigate security incidents. This training teaches you how to monitor alerts and breaches, and how to understand and follow established procedures for response to alerts converted to incidents. Through a combination of lecture, hands-on labs, and self-study, you will learn the essential skills, concepts, and technologies to be a contributing member of a Cybersecurity Operations Center (SOC) including understanding the IT infrastructure, operations, and vulnerabilities. This course prepares you for the Cisco Certified Cybersecurity Associate certification.

Please note that this course is a combination of Instructor-Led and Self-Paced Study - 5 days in the classroom and approx. 1 day of self-study. The self-study content will be provided as part of the digital courseware that you will receive at the beginning of the course and should be part of your preparation for the exam.

This course is worth 30 Continuing Education (CE) Credits towards recertification.

## What You'll Learn

After completing this course, you should be able to:

- Explain how a SOC operates and describe the different types of services that are performed from a Tier 1 SOC analyst's perspective
- Explain the use of SOC metrics to measure the effectiveness of the SOC
- Explain the use of a workflow management system and automation to improve the effectiveness of the SOC
- Describe the Windows operating system features and functionality
- Provide an overview of the Linux operating system
- Understand common endpoint security technologies
- Explain the network security monitoring (NSM) tools that are available to the network security analyst
- Describe security flaws in the TCP/IP protocol and how they can be used to attack networks and hosts
- Explain the data that is available to the network security analyst
- Describe the basic concepts and uses of cryptography

- Understand the foundational cloud security practices, including deployment and service models, shared responsibilities, compliance frameworks, and identity and access management, to effectively secure cloud environments against cyberthreats
- Understand and implement advanced network security, data protection, secure application deployment, continuous monitoring, and effective disaster recovery strategies to secure cloud deployments
- Understand the kill chain and the diamond models for incident investigations, and the use of exploit kits by threat actors
- Identify the common attack vectors
- Identify malicious activities
- Identify patterns of suspicious behaviors
- Identify resources for hunting cyber threats
- Explain the need for event data normalization and event correlation
- Conduct security incident investigations
- Explain the use of a typical playbook in the SOC
- Describe a typical incident response plan and the functions of a typical computer security incident response team (CSIRT)

## Who Needs to Attend

This course is designed for an associate-level cybersecurity analyst working in a security operation center (SOC).

## Prerequisites

Attendees should meet the following prerequisites:

- Familiarity with Ethernet and TCP/IP networking
- Working knowledge of the Windows and Linux operating systems
- Familiarity with basics of networking security concepts

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CLASSROOM LIVE

\$4,295 USD

5 Day

## Classroom Live Outline

- Defining the Security Operations Center
- Understanding Network Infrastructure and Network Security Monitoring Tools
- Exploring Data Type Categories
- Understanding Basic Cryptography Concepts
- Understanding Common TCP/IP Attacks
- Understanding Endpoint Security Technologies
- Understanding Incident Analysis in a Threat-Centric SOC
- Identifying Resources for Hunting Cyber Threats
- Understanding Event Correlation and Normalization
- Identifying Common Attack Vectors
- Identifying Malicious Activity
- Identifying Patterns of Suspicious Behavior
- Conducting Security Incident Investigations
- Using a Playbook Model to Organize Security Monitoring
- Understanding SOC Metrics
- Understanding SOC Workflow and Automation
- Describing Incident Response
- Understanding the Use of VERIS
- Understanding Windows Operating System Basics
- Understanding Linux Operating System Basics

## Classroom Live Labs

- Configure the Initial Collaboration Lab Environment
- Use NSM Tools to Analyze Data Categories
- Explore Cryptographic Technologies
- Explore TCP/IP Attacks
- Explore Endpoint Security

- Investigate Hacker Methodology
- Hunt Malicious Traffic
- Correlate Event Logs, PCAPs, and Alerts of an Attack
- Investigate Browser-Based Attacks
- Analyze Suspicious DNS Activity
- Explore Security Data for Analysis
- Investigate Suspicious Activity Using Security Onion
- Investigate Advanced Persistent Threats
- Explore SOC Playbooks
- Explore the Windows Operating System
- Explore the Linux Operating System

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VIRTUAL CLASSROOM LIVE

\$4,295 USD

5 Day

## Virtual Classroom Live Outline

### **Defining the Security Operations Center**

- Types of Security Operations Centers
- SOC Analyst Tools
- Data Analytics
- Hybrid Installations: Automated Reports, Anomaly Alerts
- Staffing an Effective Incident Response Team
- Roles in a Security Operations Center
- Developing Key Relationships with External Resources

### **Understanding SOC Metrics**

- Security Data Aggregation
- Time to Detection
- Security Controls Detection Effectiveness
- SOC Metrics

### **Understanding SOC Workflow and Automation**

- SOC WMS Concepts
- Incident Response Workflow
- SOC WMS Integration
- DevSecOps in Cybersecurity
- Automate Security in CI/CD Pipelines
- DevSecOps for Cloud-Native and Containerized Environments
- SecOps Collaboration and DevSecOps Culture
- SOC Workflow Automation Example

### **Understanding Windows Operating System Basics (Self-Study)**

- Windows Operating System History
- Windows Operating System Architecture
- Windows Processes, Threads and Handles

- Windows Virtual Memory Address Space
- Windows Services
- Windows File System Overview
- Windows File System Structure
- Windows Domains and Local user Accounts
- Windows GUI
- Run as Administrator
- Windows CLI
- Windows Powershell
- Windows net Command
- Controlling Startup Services and Executing System shutdown
- Controlling Services and Processes
- Monitoring System Resources
- Windows Boot Process
- Windows Networking
- Windows netstat Command
- Accessing Network Resources with Windows
- Windows Registry
- Windows Management Instrumentation
- Common Windows Server Functions
- Common Third-Party Tools
- Lab Set-up Video: Explore the Windows Operating System

### **Understanding Linux Operating System Basics (Self-Study)**

- History and Benefits of Linux
- Linux Architecture
- Linux File System Overview
- Basic File System Navigation and Management Commands
- File Properties and Permissions
- Editing File Properties
- Root and Sudo
- Disks and File Systems
- System Initialization
- Emergency/Alternate Startup Options
- Shutting Down the System
- System Processes
- Interacting with Linux
- Linux Command Shell Concepts
- Piping Command Output
- Other Useful Command-Line Tools
- Overview of Secure Shell Protocol
- Networking
- Managing Services in SysV Environments
- Viewing Running Network Services
- Name Resolution: DNS
- Testing Name Resolution

- Viewing Network Traffic
- Configuring Remote Syslog
- Running Software on Linux
- Executables vs Interpreters
- Using Package Managers to Install Software in Linux
- System Applications
- Lightweight Directory Access Protocol
- Lab Set-Up Video: Explore the Linux Operating System

### **Understanding Endpoint Security Technologies**

- Host-Based Personal Firewall
- Signature-Based and Rule-Based Monitoring
- Monitor Network Traffic and the Endpoint Level
- Predictive AI in Endpoint Security Monitoring
- AI-Driven Behavioral Analysis for Threat Detection
- Machine Learning Technologies in Host-Based Monitoring
- Cisco ML-and AI-Powered Security Solutions
- Host-Based Antivirus
- Host Intrusion Prevention System
- Application Allowed Lists and Blocked Lists
- Host-Based Malware Protection
- Sandboxing
- File Integrity Checking
- Lab Set-Up Video: Explore Endpoint Security
- Secure Virtualized Environments
- Container Security Fundamentals
- Monitor and Protect Container Workloads
- Best Security Practices for Hybrid Environments

### **Understanding Network Infrastructure and Network Security Monitoring Tools**

- NAT Fundamentals
- Packet Filtering with ACLs
- ACLs with the Established Option
- Access Control Models
- Authentication, Authorization and Accounting
- Load Balancing
- Network-Based Malware Protection
- Network Security Monitoring Tools

### **Understanding Common TCP/IP Attacks**

- Address Resolution Protocol
- Legacy TCP/IP Vulnerabilities
- IP Vulnerabilities
- ICMP Vulnerabilities
- TCP Vulnerabilities
- UDP Vulnerabilities
- Attack Surface and Attack Vectors

- Reconnaissance Attacks
- Access Attacks
- Man-in-the-Middle Attacks
- Denial of Service and Distributed Denial of Service
- Reflection and Amplification Attacks
- Spoofing Attacks
- DHCP Attacks

### **Exploring Data Type Categories**

- Network Security Monitoring Data Types
- Security Onion Overview
- Full Packet Capture
- Packet Captures
- Packet Capture Using Tcpdump
- Session Data
- Transaction Data
- Alert data
- Other Data Types
- Correlating NSM Data
- Information Security Confidentiality, Integrity and Availability
- Personally Identifiable Information
- Regulatory Compliance
- Intellectual Property

### **Understanding Basic Cryptography Concepts**

- Impact of Cryptography on Security Investigations
- Cryptography Overview
- Hash Algorithms
- Encryption Overview
- Cryptanalysis
- Symmetric Encryption Algorithms
- Asymmetric Encryption Algorithms
- Diffie-Helman Key Agreement
- Use Case: SSH
- Digital Signatures
- PKI Overview
- PKI Operations
- Use Case: SSL/TLS
- Cipher Suite
- Key Management
- NSA Suite B

### **Cloud Security Fundamentals**

- Cloud Deployment and Service Models
- Shared Responsibility Model in Cloud Security
- Cloud Security Frameworks and Compliance
- Identity and Access Management in Cloud Environments

## **Securing Cloud Deployments**

- Network Security in Cloud Environments
- Data Protection in the Cloud
- Secure Cloud Workload and Applications
- Cloud Monitoring, Logging and Incident Response
- Threat Detection and Vulnerability Management in the Cloud
- Disaster Recovery and Business Continuity in the Cloud

## **Understanding Incident Analysis in a Threat-Centric SOC**

- Classic Kill Chain Model Overview
- Social Engineering Attack Vectors
- Generative AI in Social Engineering
- Detecting and Mitigating Social Engineering Threats
- Kill Chain Phase 1: Reconnaissance
- Kill Chain Phase 2: Weaponization
- Kill Chain Phase 3: Delivery
- Kill Chain Phase 4: Exploitation
- Kill Chain Phase 5: Installation
- Kill Chain Phase 6: Command-and-Control
- Kill Chain Phase 7: Actions on Objectives
- Applying the Kill Chain Model
- Diamond Model Overview
- Applying the Diamond Model
- MITRE ATTACK Framework

## **Identifying Common Attack Vectors**

- DNS Operations
- Dynamic DNS
- Recursive DNS Query
- HTTP Operations
- HTTPS Operations
- HTTP/2 Operations
- SQL Operations
- SMTP Operations
- Web Scripting
- Obfuscated JavaScript
- Shellcode and Exploits
- Common Metasploit Payloads
- Directory Traversal
- SQL Injection
- Cross-Site Scripting
- Punycode
- DNS Tunneling
- Pivoting
- HTTP 302 Cushioning
- Gaining Access Via Web-Based Attacks

- Exploit Kits
- Emotet Advanced Persistent Threat

### **Identifying Malicious Activity**

- Understanding the Network Design
- Zero Trust Model
- Identifying Possible Threat Actors
- Log Data Search
- System Logs
- Windows Event Viewer
- Firewall Log
- DNS Log
- Web Proxy Log
- Email Proxy Log
- AAA Server Log
- Next Generation Firewall Log
- Application Log
- NetFlow
- NetFlow as a Security Tool
- Network Behavior Anomaly Detection
- Data Loss Detection Using NetFlow example
- DNS Risk and Mitigation Tool
- IPS Evasion Techniques
- The Onion Router
- Gaining Access and Control
- Peer-to-Peer Networks
- Encapsulation
- Altered Disk Image

### **Identifying Patterns of Suspicious Behavior**

- Network Baselining
- Identifying Anomalies and Suspicious Behaviors
- PCAP Analysis
- Delivery

### **Identifying Resources for Hunting Cyber Threats**

- Cyber-Threat Hunting Concepts
- Hunting Maturity Model
- Cyber Threat Hunting Cycle
- Common Vulnerability Scoring System
- CVSS v3.0 Scoring
- CVSS v3.0 Example
- Hot Threat Dashboard
- Publicly Available Threat Awareness Resources
- Other External Threat Intelligence Sources and Feed Reference
- Security Intelligence
- Threat Analytic Systems

- Security Tools Reference

### **Understanding Event Correlation and Normalization**

- Event Sources
- Implementing SIEM Solutions for Effective Security Monitoring
- SOAR Platform Overview
- Cisco XDR Platform Overview
- Integrating XDR,SIEM, and SOAR for SOC Efficiency
- Evidence
- Chain of Custody
- Security Data Normalization
- Event Correlation
- Other Security Data Manipulation

### **Conducting Security Incident Investigations**

- Security Incident Investigation Procedures
- Threat Investigation Example: China Chopper Remote Access Trojan

### **Using a Playbook Model to Organize Security Monitoring**

- Security Analytics
- Playbook Definition
- What is a Play?
- Playbook Management System

### **Describing Incident Response**

- Incident Response Planning
- Incident Response Life Cycle
- Incident Response Policy Elements
- Incident Attack Categories
- Reference US-CERT Incident Categories
- Regulatory Compliance Incident Response Requirements
- CSIRT Categories
- CSIRT Framework
- CSIRT Incident Handling Services

### **Virtual Classroom Live Labs**

- Discovery Lab 1: Use NSM Tools to Analyze Data Categories
- Discovery Lab 2: Explore Cryptographic Technologies
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- Discovery Lab 14: Explore the Windows Operating System
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Aug 10 - 14, 2026 | 8:30 AM - 4:30 PM EDT

Nov 30 - Dec 4, 2026 | 8:30 AM - 4:30 PM EST

Jan 4 - 8, 2027 | 8:30 AM - 4:30 PM EST

Mar 15 - 19, 2027 | 8:30 AM - 4:30 PM EDT

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ON-DEMAND

\$800 USD

## On-Demand Outline

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- Types of Security Operations Centers
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- Data Analytics
- Hybrid Installations: Automated Reports, Anomaly Alerts
- Staffing an Effective Incident Response Team
- Roles in a Security Operations Center
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PRIVATE GROUP TRAINING

5 Day

Visit us at [www.globalknowledge.com](http://www.globalknowledge.com) or call us at 1-866-716-6688.

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