

Understanding Cisco Cybersecurity Operations Fundamentals

Duration: 180 Days **Course Code: CBROPS** **Version: 1.0** **Delivery Method: Elearning**
(Self-paced)

Overview:

The Understanding Cybersecurity Operations Fundamentals (CBROPS) course teaches an understanding of the network infrastructure devices, operations, and vulnerabilities of the Transmission Control Protocol/Internet Protocol (TCP/IP) protocol suite. You will learn basic information about security concepts, common network application operations and attacks, the Windows and Linux operating systems, and the types of data used to investigate security incidents. After completing this course, you will have the basic knowledge required to perform the job role of an associate-level cybersecurity analyst in a threat-centric security operations center to strengthen network protocol, protect your devices and increase operational efficiency. This course prepares you for the Cisco Certified CyberOps Associate certification and the role of a Junior or entry-level cybersecurity operations analyst in a Security Operations Center (SOC).

Target Audience:

This course is designed for an associate-level cybersecurity analyst who is working in security operation centers.

Objectives:

- **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 Network Security Monitoring (NSM) tools that are available to the network security analyst.
- Explain the data that is available to the network security analyst.
- Describe the basic concepts and uses of cryptography.
- Describe security flaws in the TCP/IP protocol and how they can be used to attack networks and hosts.
- Understand common endpoint security technologies.
- Understand the kill chain and the diamond models for incident investigations, and the use of exploit kits by threat actors.
- Identify resources for hunting cyber threats.
- Explain the need for event data normalization and event correlation.
- Identify the common attack vectors.
- Identify malicious activities.
- Identify patterns of suspicious behaviors.
- Conduct security incident investigations.
- Explain the use of a typical playbook in the SOC.
- 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 a typical incident response plan and the functions of a typical CSIRT.
- Explain the use of Vocabulary for Event Recording and Incident Sharing (VERIS) to document security incidents in a standard format.

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
- CCNA - Implementing and Administering Cisco Solutions

Testing and Certification

Recommended as preparation for the following exams:

- **200-201** - CBROPS Understanding Cisco Cybersecurity Operations Fundamentals

Content:

Defining the Security Operations Center	Identifying Resources for Hunting Cyber Threats	Understanding SOC Metrics
Understanding Network Infrastructure and Network Security Monitoring Tools	Understanding Event Correlation and Normalization	Understanding SOC Workflow and Automation
Exploring Data Type Categories	Identifying Common Attack Vectors	Describing Incident Response
Understanding Basic Cryptography Concepts	Identifying Malicious Activity	Understanding the Use of VERIS
Understanding Common TCP/IP Attacks	Identifying Patterns of Suspicious Behavior	Understanding Windows Operating System Basics
Understanding Endpoint Security Technologies	Conducting Security Incident Investigations	Understanding Linux Operating System Basics
Understanding Incident Analysis in a Threat-Centric SOC	Using a Playbook Model to Organize Security Monitoring	Labs
		<ul style="list-style-type: none">■ 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

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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