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Learning Style: On Demand

Technology:

Difficulty: Beginner

Course Duration: 40 Hours

Understanding Cisco Cybersecurity Operations Fundamentals - On Demand (CBROPS)

About the course:

The Understanding Cybersecurity Operations Fundamentals (CBROPS) self-paced 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.

Course Objectives:

- 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 Computer Security Incident Response Team (CSIRT)
- Explain the use of Vocabulary for Event Recording and Incident Sharing (VERIS) to document security incidents in a standard format

Audience:

This course is designed for individuals seeking a role as an associate-level cybersecurity analyst, IT professionals desiring knowledge in Cybersecurity operations or those in pursuit of the Cisco Certified CyberOps Associate certification including:

- Students pursuing a technical degree
- Current IT professionals
- Recent college graduates with a technical degree

Prerequisites:

Before taking this course, you should have the following knowledge and skills:

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

The following Cisco course can help you gain the knowledge you need to prepare for this course:

- Implementing and Administering Cisco Solutions (CCNA)

Course Outline:

Credly Badge:

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