Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)

ID CBROPS **Price** 3,950.— €(excl. tax) **Duration** 5 days

Course Overview

The **Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)** training 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 training helps you prepare for the Cisco® Certified CyberOps Associate certification and the role of a Junior or Entry-level cybersecurity operations analyst in a SOC.

How You'll Benefit

This training will help you:

- Learn the fundamental skills, techniques, technologies, and the hands-on practice necessary to prevent and defend against cyberattacks as part of a SOC team
- Prepare for the 200-201 Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS) exam which earns the Cisco Certified CyberOps Associate certification
- This training also earns you 30 Continuing Education (CE) credits towards recertification.

What to Expect in the Exam

The 200-201 CBROPS exam is a 120-minute assessment for the Cisco Certified CyberOps Associate certification and is aligned with the associate-level cybersecurity operations analyst job role. The CBROPS exam tests a candidate's knowledge and skills related to security concepts, security monitoring, host-based analysis, network intrusion analysis, and security policies and procedures.

Who should attend

This training is designed for individuals seeking a role as an associate-level cybersecurity analyst and 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

This course is part of the following Certifications

Cisco Certified CyberOps Associate (CCCA)

Prerequisites

Before taking this training, 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) v2.1

Course Objectives

After taking this training, you should be able to:

- Explain how a Security Operations Center (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.

Detailed Course 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

About Fast Lane

Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace, as well as management and leadership skills, IT and project management.

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- ✓ Blended & Hybrid Learning
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