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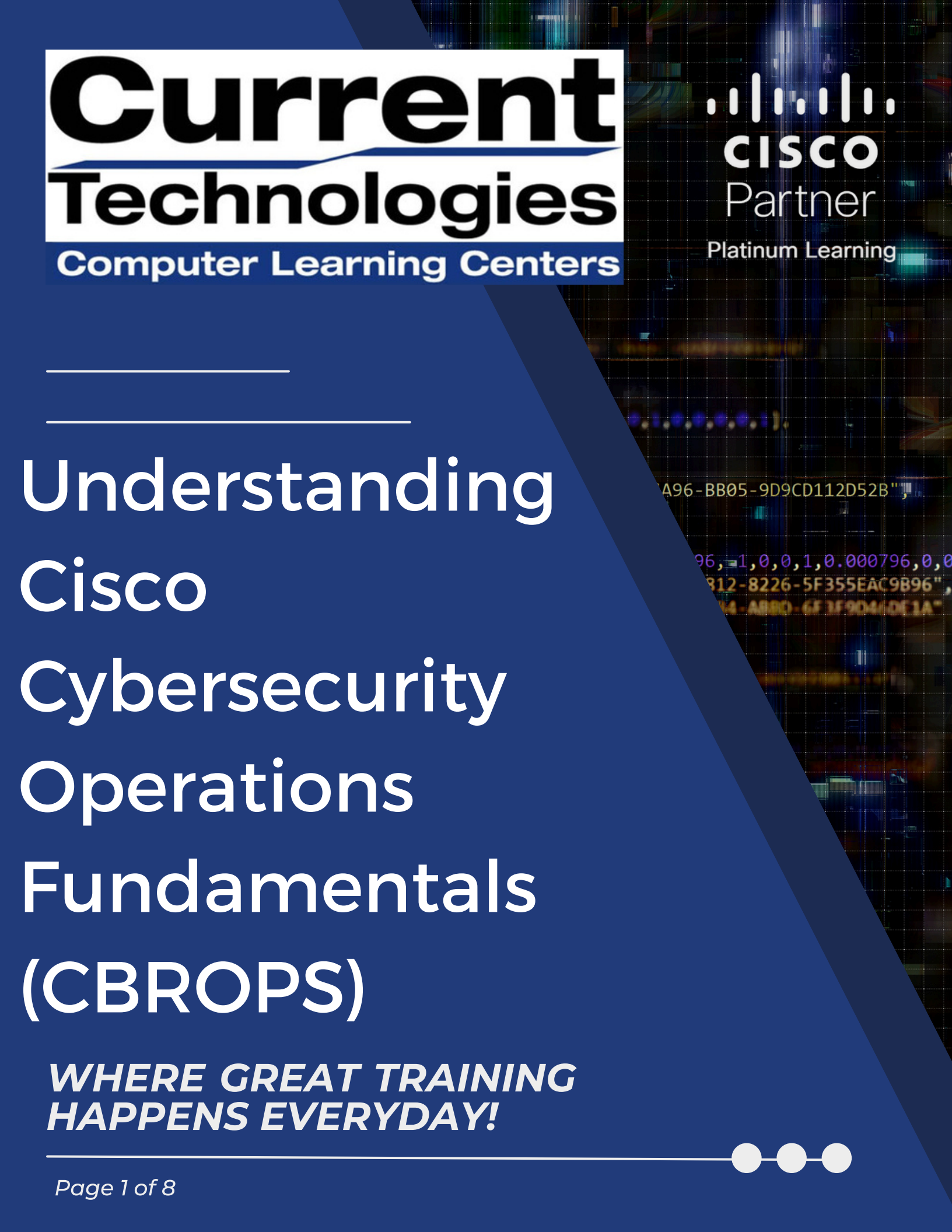

Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)

WHERE GREAT TRAINING HAPPENS EVERYDAY!

Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)

Course Duration

5 Days

Course Price

$4,295.00
43 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

The Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS) v1.2 training provides an understanding of the network infrastructure devices, operations, and vulnerabilities of the TCP/IP protocol suite, and basic information security concepts, common network application operations and attacks, the Windows and Linux operating systems, and the types of data that are used to investigate security incidents. After completing this training, you will have the basic knowledge that is required to perform the job role of an associate-level cybersecurity analyst in a threat-centric security operations center (SOC).

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How you will benefit

This class 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 CBROPS v1.2 exam; If passed, you earn the Cisco Certified Cybersecurity Associate certification and the role of a junior or entry-level cybersecurity operations analyst in a SOC.
- Earn 30 CE credits toward recertification

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

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

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Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)

Objectives

After taking 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

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Objectives

After taking this course, you should be able to:

- 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)

Prequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- 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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Course Outline

Module 1: Defining the Security Operations Center

Module 2: Understanding SOC Metrics

Module 3: SOC Workflow and Automation

Module 4: Windows Operating System Basics

Module 5: Understanding Linux Operating System Basics

Module 6: Understanding Endpoint Security Technologies

Module 7: Understanding Network Infrastructure and Network Security Monitoring Tools

Module 8: Understanding Common TCP/IP Attacks

Module 9: Exploring Data Type Categories

Module 10: Understanding Basic Cryptography Concepts

Module 11: Cloud Security Fundamentals

Module 12: Securing Cloud Deployments

Module 13: Understanding Incident Analysis in a Threat-Centric SOC

Module 14: Identifying Resources for Hunting Cyber Threats

Module 15: Understanding Event Correlation and Normalization

Module 16: Identifying Common Attack Vectors

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Course Outline

Module 17: Identifying Malicious Activity

Module 18: Identifying Patterns of Suspicious Behavior

Module 19: Identifying Resources for Hunting Cyber Threats

Module 20: Understanding Event Correlation and Normalization

Module 21: Conducting Security Incident Investigations

Module 22: Using a Playbook Model to Organize Security Monitoring

Module 23: Describing Incident Response

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Understanding Cisco Cybersecurity Operations Fundamentals (CBROPS)

Lab Outline

- Lab 1: Explore the Windows Operating System
- Lab 2: Explore the Linux Operating System
- Lab 3: Explore Endpoint Security
- Lab 4: Explore TCP/IP Attacks
- Lab 5: Use NSM Tools to Analyze Data Categories
- Lab 6: Explore Cryptographic Technologies
- Lab 7: Investigate Hacker Methodology
- Lab 8: Investigate Browser-Based Attacks
- Lab 9: Analyze Suspicious DNS Activity
- Lab 10: Explore Security Data for Analysis
- Lab 11: Investigate Suspicious Activity Using Security Onion
- Lab 12: Hunt Malicious Traffic
- Lab 13: Cisco XDR to Splunk Enterprise Integration Simulation
- Lab 14: Correlate Event Logs, PCAPs, and Alerts of an Attack
- Lab 15: Investigate Advanced Persistent Threats
- Lab 16: Explore SOC Playbooks