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## Understanding Cisco Cybersecurity Operations Fundamentals

**Duration: 5 Days**    **Course Code: CBROPS**    **Version: 1.0**    **Delivery Method: Company Event**

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### 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.

**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.**

### Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

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### Target Audience:

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

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### 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 VERIS to document security incidents in a standard format.
  - Describe the Windows operating system features and functionality.
  - Describe the Linux operating system features and functionality.
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## 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:

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| 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"><li>■ Configure the Initial Collaboration Lab Environment</li><li>■ Use NSM Tools to Analyze Data Categories</li><li>■ Explore Cryptographic Technologies</li><li>■ Explore TCP/IP Attacks</li><li>■ Explore Endpoint Security</li><li>■ Investigate Hacker Methodology</li><li>■ Hunt Malicious Traffic</li><li>■ Correlate Event Logs, PCAPs, and Alerts of an Attack</li><li>■ Investigate Browser-Based Attacks</li><li>■ Analyze Suspicious DNS Activity</li><li>■ Explore Security Data for Analysis</li><li>■ Investigate Suspicious Activity Using Security Onion</li><li>■ Investigate Advanced Persistent Threats</li><li>■ Explore SOC Playbooks</li><li>■ Explore the Windows Operating System</li><li>■ Explore the Linux Operating System</li></ul> |

## 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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