

# Cisco® Understanding Cisco® Cybersecurity Fundamentals v1.0 (SECFND)

## Course Overview

This is a 5-day class

CCNA Cyber Ops prepares candidates to begin a career working with associate-level cybersecurity analysts within security operations centers.



## Who Should Attend

Security Operations Center – Security Analyst  
Computer/Network Defense Analysts  
Computer Network Defense Infrastructure Support Personnel  
Future Incident Responders and Security Operations Center (SOC) personnel.  
Students beginning a career, entering the cybersecurity field.  
Cisco Channel Partners

## Course Objectives

Upon completion of this course, you will be able to:  
Describe, compare and identify various network concepts  
Fundamentals of TCP/IP  
Describe and compare fundamental security concepts  
Describe network applications and the security challenges  
Understand basic cryptography principles.  
Understand endpoint attacks, including interpreting log data to identify events in Windows and Linux  
Develop knowledge in security monitoring, including identifying sources and types of data and events  
Know various attack methods, security weaknesses, evasion methods, and remote versus local exploits

## Course Outline

### 1 TCP/IP AND CRYPTOGRAPHY CONCEPTS

Understanding the TCP/IP Protocol Suite  
Understanding the Network Infrastructure  
Understanding Common TCP/IP Attacks  
Understanding Basic Cryptography Concepts

### 2 NETWORK APPLICATIONS AND ENDPOINT SECURITY

Describing Information Security Concepts  
Understanding Network Applications  
Understanding Common Network Application Attacks  
Understanding Windows Operating System Basics  
Understanding Linux Operating System Basics  
Understanding Common Endpoint Attacks  
Understanding Network Security Technologies  
Understanding Endpoint Security Technologies

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## 3 SECURITY MONITORING AND ANALYSIS

Describing Security Data Collection

Describing Security Event Analysis

## 4 LABS

Guided Lab 1: Explore the TCP/IP Protocol Suite

Guided Lab 2: Explore the Network Infrastructure

Guided Lab 3: Explore TCP/IP Attacks

Guided Lab 4: Explore Cryptographic Technologies

Guided Lab 5: Explore Network Applications

Guided Lab 6: Explore Network Application Attacks

Guided Lab 7: Explore the Windows Operating System

Guided Lab 8: Explore the Linux Operating System

Guided Lab 9: Explore Endpoint Attacks

Guided Lab 10: Explore Network Security Technologies

Guided Lab 11: Explore Endpoint Security

Guided Lab 12: Explore Security Data for Analysis