

CCNA CyberOps: UNDERSTANDING CYBERSECURITY FUNDAMENTALS (SECFND)

TECHLAN

ACADEMY

DATE: January 18 – 19 – 25 – 26 - 29

CONTACT: academy@techlan.it

STUDY BOOK:

PRICE: Request

COURSE OBJECTIVE:

The course helps to prepare students for beginning and associate level roles in cybersecurity operations. The course focuses on security principles and technologies, using Cisco security products to provide hands-on examples. Using instructor-led discussions, extensive hands-on lab exercises, and supplemental materials, this course allows learners to understand common security concepts, and start to learn the basic security techniques used in a Security Operations Center (SOC) to find threats on a network using a variety of popular security tools within a real-life network infrastructure.

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

PREREQUISIT:

It is recommended, but not required, that students have the following knowledge and skills:

Cisco certification (Cisco CCENT certification or higher)

Relevant industry certification [(ISC)2, CompTIA Security+, EC-Council, GIAC, ISACA]

Windows expertise: Microsoft (Microsoft Specialist, MCSA, MCSE), CompTIA (A+, Network+, Server+)

Linux expertise: CompTIA (Linux+), Linux Professional Institute (LPI) certification, Linux Foundation (LFCS, LFCE), Red Hat (RHCSA, RHCE, RHCA), Oracle Linux (OCA, OCP)

In relation to EXAM:

210-250 SECFND

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

COURSE CONTENT:

MODULE 1: Network Concepts

Understanding the network infrastructure

MODULE 2: Security Concepts

MODULE 3: Cryptography/IP

Understanding the TCP/IP
Protocol Suite

MODULE 4: Host Base Analysis

MODULE 5: Security Monitoring

Describing Security Data Collection
Describing Security Event Analysis

MODULE 6: Attack Methods

Understanding Common TCP/IP Attacks

LABS:

Lab 1: Explore the TCP/IP Protocol Suite

Lab 2: Explore the Network Infrastructure

Lab 3: Explore TCP/IP Attacks

Lab 4: Explore Cryptographic Technologies

Lab 5: Explore Network Applications

Lab 6: Explore Network Application Attacks

Lab 7: Explore the Windows Operating System

Lab 8: Explore the Linux Operating System

Lab 9: Explore Endpoint Attacks

Lab 10: Explore Network Security Technologies

Lab 11: Explore Endpoint Security

Lab 12: Explore Security Data for Analysis