CCNA CYBEROPS: CYBERSECURITY FUNDAMENTALS (SECFND)

DATE: To be confirmed **CONTACT: academy@techlan.it** **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:

Skills and knowledge equivalent to those learned in Interconnecting Cisco Networking Devices Part 1 (ICND1)

Working knowledge of the Windows operating system

Working knowledge of Cisco IOS networking and concepts

In relation to EXAM:

210-255 SECOPS

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

TECHLAN

ACADEMY

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