# CCNA SECURITY 210-260



## Course Overview

This is a course that provide students with in-dept knowledge on network security and its concepts. It teaches installation, troubleshooting and monitoring of network device to maintain integrity and availability of network and devices.

## What you will learn.

This course will teach you how to.

- Secure administrative access on Cisco routers
- Secure administrative access with AAA
- Implement firewall technologies to secure the network perimeter
- Configure IPS to mitigate attacks on the network
- Describe LAN security considerations and implement endpoint and Layer 2 security features
- Describe methods for implementing data confi-

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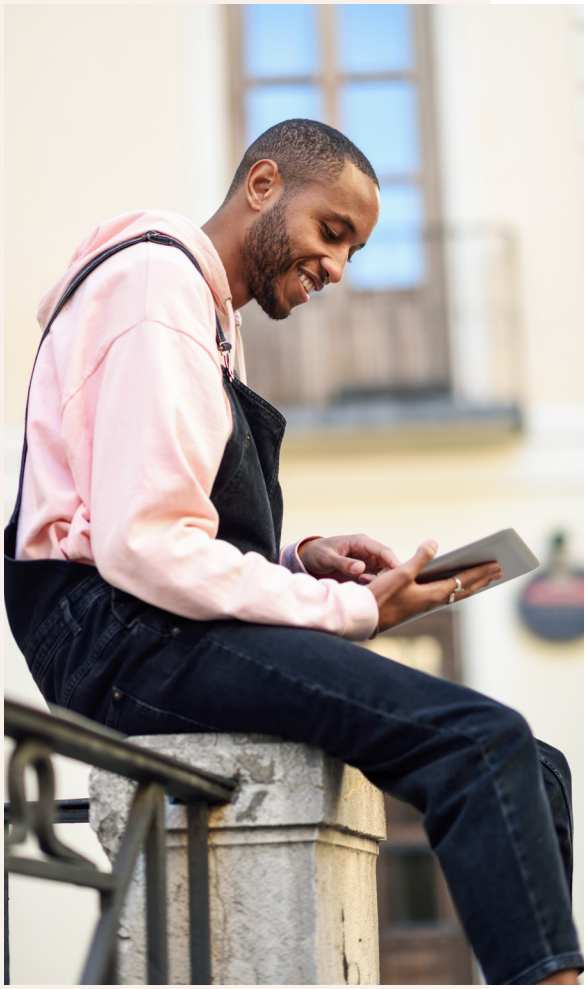




dentiality and integrity

- Implement secure virtual private networks
- Explain network threats, mitigation techniques, and the basics of securing a network

## Prerequisite

CCENT, CCNA Routing and Switches or CCIE can act as a prerequisite.

## Course Outline

**1.0 Modern Network Security Threats**

1.1 Fundamental Principles of a Secure Network

1.2 Worms, Viruses and Trojan Horses

1.3 Attack Methodologies

**2.0 Securing Network Devices**

2.1 Securing Device Access and Files

2.2 Privilege Levels and Role-Based CLI

2.3 Monitoring Devices

2.4 Using Automated Features

**3.0 Authentication, Authorization and Accounting (AAA)**

3.1 Purpose of AAA

3.2 Configuring Local AAA

3.3 Configure Server-Based AAA

**4.0 Implementing Firewall Technologies**

4.1 Access Control Lists

4.2 Firewall Technologies

4.3 Context-Based Access Control

4.4 Zone-Based Policy Firewall

**5.0 Implementing Intrusion Prevention**

5.1 IPS Technologies

5.2 Implementing IPS

**6.0 Securing the Local Area Network**

6.1 Endpoint Security Considerations

6.2 Layer 2 Security Considerations

6.3 Wireless, VoIP and SAN Security Considerations

6.4 Configuring Switch Security

6.5 SPAN and RSPAN

**7.0 Cryptography**

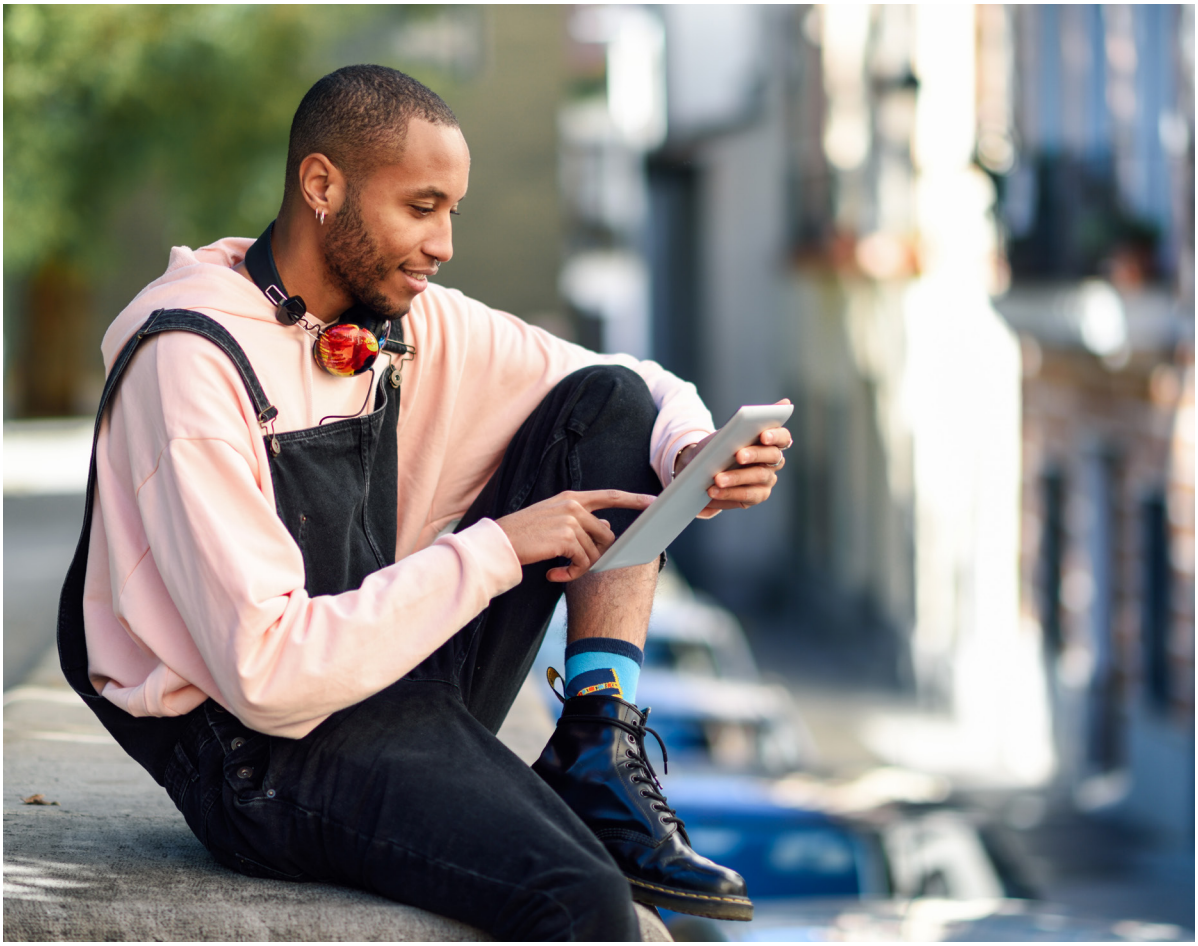
7.1 Cryptographic Services

7.2 Hashes and Digital Signatures

7.3 Symmetric and Asymmetric Encryption

**8.0 Implementing Virtual Private Networks**





8.1 VPNs
8.2 IPSec VPN Components and Operation
8.3 Implementing Site-to-Site IPSec VPNs
8.4 Implementing a Remote Access VPN
8.5 Implementing SSL VPNs
**9.0 Managing a Secure Network**
9.1 Secure Network Lifecycle
9.2 Self-Defending Network
9.3 Building a Comprehensive Security Policy