

# Cisco Certified Network Professional (CCNP)

CCNP - Cisco Certified Network professional . This is the advanced level certification program from Cisco . This is meant for professionals who want to gain a deeper understanding of networking technologies with an emphasis on planning and implementing LANs and WANs. The CCNP program helps the engineer bring together technologies like wireless, VoIP, security into a comprehensive whole.

We offer the CCNP as three specialized courses-Routing and Switching, Security and Voice. The prerequisite for each is a CCNA in the respective specializations. The CCNP program is taught by senior network engineers in a world class environment with state of the art labs and infrastructure.

## Course Outline

### ☞ **CCNP - Routing and Switching**


- Implementing Cisco IP Routing (ROUTE)
- Implementing Cisco IP Switched Networks (SWITCH)
- Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

### ☞ **CCNP - Security**

- Deploying Cisco ASA Firewall solutions
- Deploying Cisco VPN solutions
- Implementing Cisco Intrusion Prevention System

### ☞ **CCNP - Voice**

- Implementing Cisco Voice Communications and QoS (CVOICE )
- Implementing Cisco Unified Communications Manager, Part 1 (CIPT1 )
- Implementing Cisco Unified Communications Manager, Part 2 (CIPT2 )
- Troubleshooting Cisco Unified Communications (TVOICE )
- Integrating Cisco Unified Communications Applications (CAPPS )



**CCNP**  
Routing & Switching  
Security  
Voice

# CCNP Security

## Course Curriculum

### Cisco Adaptive Security Appliance (Cisco ASA) Essentials

- Evaluating Cisco ASA Technologies
- Identifying Cisco ASA Families
- Identifying Cisco ASA Licensing Options

### Basic Connectivity and Device Management

- Preparing the Cisco ASA for Network Integration
- Managing Basic Cisco ASA Network Settings
- Configuring Cisco ASA Device Management Features

### Network Integration

- Configuring Cisco ASA NAT Features
- Configuring Cisco ASA Basic Access Control Features
- Configuring Cisco ASA Routing Features
- Configuring the Cisco ASA Transparent Firewall

### Cisco ASA Policy Control

- Defining the Cisco ASA MPF
- Configuring Cisco ASA Connection Policy and QoS Settings
- Configuring Cisco ASA Advanced Application Inspections
- Configuring Cisco ASA User-Based Policies

### Cisco ASA High Availability and Virtualization

- Configuring Cisco ASA Interface Redundancy Features
- Configuring Cisco ASA Active/Standby High Availability
- Configuring Security Contexts on Cisco ASA
- Configuring Cisco ASA Active/Active High Availability

### Cisco ASA VPN Architecture and Common Components

- Evaluating the Cisco ASA VPN Subsystem Architecture
- Evaluating the Cisco ASA Software Architecture
- Implementing Profiles, Group Policies, and User Policies
- Implementing PKI Services

### Cisco ASA Clientless Remote Access SSL VPN Solutions

- Deploying Basic Clientless VPN Solutions
- Deploying Advanced Application Access for Clientless SSL VPNs
- Customizing the Clientless SSL VPN User Interface and Portal

### Cisco Any Connect Remote Access SSL Solutions

- Deploying a Basic Cisco AnyConnect Full-Tunnel SSL VPN Solution
- Deploying an Advanced Cisco AnyConnect Full-Tunnel SSL VPN Solution

### Cisco ASA Remote Access IPsec VPNs

- Deploying Cisco Remote Access VPN Clients
- Deploying Basic Cisco Remote Access IPsec VPN Solutions

### Cisco ASA Site-to-Site IPsec VPN Solutions

- Deploying Basic Site-to-Site IPsec VPNs
- Deploying Advanced Site-to-Site IPsec VPNs

### Deploying Cisco IOS Software Site-to-Site Transmission Security

- Site-to-Site VPN Architectures and Technologies
- Deploying GRE over IPsec VPNs
- Deploying VTI-Based Site-to-Site IPsec VPNs
- Deploying Scalable Authentication in Site-to-Site IPsec VPNs
- Deploying DMVPNs

### Deploying Secure Remote Access with Cisco IOS Software

- Remote Access VPN Architectures and Technologies
- Deploying Remote Access Solutions Using SSL VPN
- Deploying Remote Access Solutions Using Cisco Easy VPN

### Introduction to Intrusion Prevention and Detection, Cisco IPS Software, and Supporting Devices

- Evaluating Intrusion Prevention and Intrusion Detection Systems
- Choosing Cisco IPS Software, Hardware, and Supporting Applications
- Evaluating Network IPS Traffic Analysis Methods, Evasion Possibilities, and Anti-Evasive Countermeasures
- Choosing a Network IPS and IDS Deployment Architecture

### Installing and Maintaining Cisco IPS Sensors

- Integrating the Cisco IPS Sensor into a Network
- Performing the Cisco IPS Sensor Initial Setup
- Managing Cisco IPS Devices

### Applying Cisco IPS Security Policies

- Configuring Basic Traffic Analysis
- Implementing Cisco IPS Signatures and Responses
- Configuring Cisco IPS Signature Engines and the Signature Database
- Deploying Anomaly-Based Operation

### Adapting Traffic Analysis and Response to the Environment

- Customizing Traffic Analysis
- Managing False Positives and False Negatives
- Improving Alarm and Response Quality

### Managing and Analyzing Events

- Installing and Integrating Cisco IPS Manager Express with Cisco IPS Sensors
- Managing and Investigating Events Using Cisco IPS Manager Express
- Using Cisco IME Reporting and Notifications