

# € TRAINING

Implementing and Administering Cisco  
Solutions CCNA v1.0





# Implementing and Administering Cisco Solutions CCNA v1.0

## Introduction:

This program is designed to prepare participants for the certification exam only.

This training program provides participants with essential knowledge and skills in Implementing and Administering Cisco Solutions CCNA v1.0. It empowers them to understand the foundational principles and practical applications of Cisco networking technologies.

## Program Objectives:

At the end of this program, participants will be able to:

- Understand fundamental networking concepts.
- Configure and troubleshoot Cisco routers and switches.
- Implement secure networks with Cisco technologies.
- Prepare for the Cisco Certified Network Associate CCNA certification exam.

## Targeted Audience:

- Network Engineers.
- Network Administrators.
- IT Professionals preparing for CCNA certification.
- Cisco Certified Professionals seeking advanced training.
- Systems Engineers.

## Program Outline:

### Unit 1:

#### Introduction to Cisco Networking:

- Overview of Cisco networking technologies.
- Basic networking concepts and terminology.
- Cisco product portfolio overview.

- Introduction to Cisco IOS Software.
- Benefits of Cisco certifications.

## Unit 2:

### Cisco Router and Switch Configuration:

- Configuring Cisco routers and switches.
- VLANs and trunking.
- Routing protocols OSPF, EIGRP.
- Inter-VLAN routing.
- Switch security features.

## Unit 3:

### Network Security and Access Control:

- Implementing network security using ACLs.
- Securing Cisco routers.
- Authentication, authorization, and accounting AAA.
- Implementing secure network management and monitoring.
- Firewall technologies and configurations.

## Unit 4:

### WAN Technologies and Configuration:

- Introduction to WAN technologies PPP, HDLC.
- Configuring serial encapsulation.
- WAN connectivity options.
- Troubleshooting WAN connectivity issues.
- VPN technologies and configurations.

## Unit 5:



## Network Troubleshooting and Management:

- Troubleshooting methodology.
- Troubleshooting network issues connectivity, VLANs.
- Network monitoring tools and techniques.
- Network documentation and best practices.
- Device management protocols SNMP, SSH.

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