

Implementing and Administering Cisco Solutions v1.0 (CCNA)

COURSE OVERVIEW

This course gives you a broad range of fundamental knowledge for all IT careers. You will learn how to install, operate, configure, and verify a basic IPv4 and IPv6 network. The course covers configuring network components such as switches, routers, and Wireless LAN Controllers; managing network devices; and identifying basic security threats. The course also gives you a foundation in network programmability, automation, and software-defined networking. This course helps you prepare to take the 200-301 Cisco Certified Network Associate (CCNA) exam to earn CCNA certification. This course consists of 5 days of instructor-led training with hands-on lab practice, plus the equivalent of 3 days of self-paced material. This course includes post class lab access- a total of 60 hours of labs over a 90 day period. This course is eligible for registration with CLC's.

WHO SHOULD ATTEND?

The course is designed for network administrators, network support technicians, help desk technicians, and entry-level network engineers responsible for installing, configuring, and troubleshooting small to medium-sized networks. It is also suitable for IT professionals looking to enhance their networking knowledge, individuals preparing for the Cisco CCNA certification exam, and anyone seeking to establish a strong foundation in networking concepts, including routing, switching, security, and wireless technologies.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Configure, manage, and troubleshoot basic IPv4 and IPv6 network infrastructures.
- Describe network fundamentals, including network components, IP addressing, and protocols.
- Implement and verify VLANs, trunking, and inter-VLAN routing.
- Configure and troubleshoot Layer 2 technologies, including EtherChannel and Spanning Tree Protocol (STP).
- Describe and implement routing concepts, including static routing and dynamic routing protocols (e.g., OSPF).
- Explain the concepts of wireless networking, including access points, wireless controllers, and wireless security.
- Implement network security measures, including device access control, Layer 2 security features, and VPN fundamentals.
- Explain network automation and programmability concepts, including REST APIs and configuration management tools.
- Utilize basic network monitoring tools and network management best practices.
- Prepare for the Cisco CCNA certification exam by mastering foundational networking skills.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Network fundamentals.
- IP addressing and subnetting.
- VLANs and inter-VLAN routing.
- Routing protocols (OSPF, EIGRP).
- WAN technologies.
- Network security basics.
- Cisco device configuration.

- Wireless networking concepts.
- Network automation introduction.
- Troubleshooting network issues.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded