



# **CCNA**

**(Cisco Certified Network Associate)**

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# COURSE OVERVIEW

The Cisco Certified Network Associate (CCNA) is an entry-level certification for individuals looking to build a career in networking. It is one of the most recognized and widely respected certifications in the IT industry. The CCNA certification demonstrates your ability to install, configure, operate, and troubleshoot small to medium-sized networks. There is no formal prerequisite for Learning CCNA and for its Certification.

CCNA has different tracks which are as given below :

- 1) CCNA (Routing Switching)
- 2) DevNet Associate
- 3) CyberOps Associate

**Hands-On Experience:** Practical experience with Cisco equipment and network simulations is highly recommended. Hands-on experience will help you apply the theoretical knowledge you gain during your studies.

**Career Benefits:** Achieving the CCNA certification can open doors to entry-level and mid-level networking jobs. It's recognized by many employers as a sign of a strong foundation in networking.

## COURSE FEATURES

### Entry-Level Certification

The CCNA is an entry-level certification designed for individuals who are new to networking or looking to start a career in the field. It provides a solid foundation of networking knowledge and skills.

### Comprehensive Exam Coverage

The CCNA exam(s) cover a wide range of networking topics, ensuring that candidates gain a deep understanding of networking fundamentals, including routing and switching, network security, and advanced technologies.

### Networking Skills Development

The CCNA course is designed to help you develop practical networking skills and knowledge that are in high demand in today's technology-driven world.

### Adaptation to Industry Trends

Cisco regularly updates its CCNA certification to align with industry trends and emerging technologies, ensuring that certified professionals stay current and relevant.

# COURSE OUTCOMES

## Strong Networking Foundation:

CCNA provides you with a solid foundation in networking principles, including routing, switching, network security, and various advanced technologies depending on the track you choose.

## Career Advancement:

CCNA certification can open doors to a wide range of entry-level and mid-level networking positions, such as network administrator, network engineer, security analyst, and more.

## Industry Recognition:

CCNA is widely recognized and respected in the IT industry. Employers value Cisco certifications as a sign of a candidate's expertise and commitment to networking.

## Increased Job Opportunities:

Many employers specifically seek CCNA-certified individuals when hiring for networking and IT positions. Having this certification can make you a more attractive candidate in the job market.

## Professional Development:

CCNA encourages continuous learning and skill development. It can be a stepping stone to higher-level Cisco certifications, such as CCNP (Cisco Certified Network Professional).

## Enhanced Problem-Solving Skills:

CCNA training emphasizes hands-on experience and troubleshooting, which can enhance your problem-solving skills in real-world networking scenarios.

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# WHO CAN DO THIS COURSE ?

12th pass, Under Graduate, Graduate, Post Graduate, Diploma and working professionals

## COURSE CURRICULUM

### 1. Network Fundamentals

- 1.1 CCNA Introduction
- 1.2 Network Types & Topologies
- 1.3 IP addressing
- 1.4 Subnetting and VLSM
- 1.5 Networking Devices
- 1.6 OSI reference Modules
- 1.7 ARP
- 1.8 Networking Media
- 1.9 Wireless Network

### 2. Network Access

- 2.1 Switching Introduction & Basic Commands
- 2.2 VLAN-VTP
- 2.3 Inter VLAN Routing, STP
- 2.4 RSTP, PVSTP, PVRSTP, Ether channel
- 2.5 Port Security

### 3. IP Connectivity

- 3.1 Static and Default routing
- 3.2 Dynamic routing
- 3.3 Dynamic Protocol (RIP, EIGRP, OSPF)
- 3.4 DHCP
- 3.5 ACL
- 3.6 NAT
- 3.7 WAN Technologies

### 4. IP Services

- 4.1 IP V6
- 4.2 HSRP
- 4.3 GLBP
- 4.4 Syslog, SNMP, NTP

### 5. Network Security Fundamentals

- 5.1 Security Terminology
- 5.2 Commonsecurity Threats
- 5.3 Controlling & Monitoring User Access
- 5.4 Securing IOS Passwords
- 5.5 Firewall, IDS&IPS

### 6. Automation & Programmability (Concepts)

- 6.1 Software-Defined Networking
- 6.2 Server Virtualization
- 6.3 Cloud Computing
- 6.4 Automation Tools (Ansible, Chef & Puppet)
- 6.5 Understanding REST & JSON

# COURSE DELEVERY

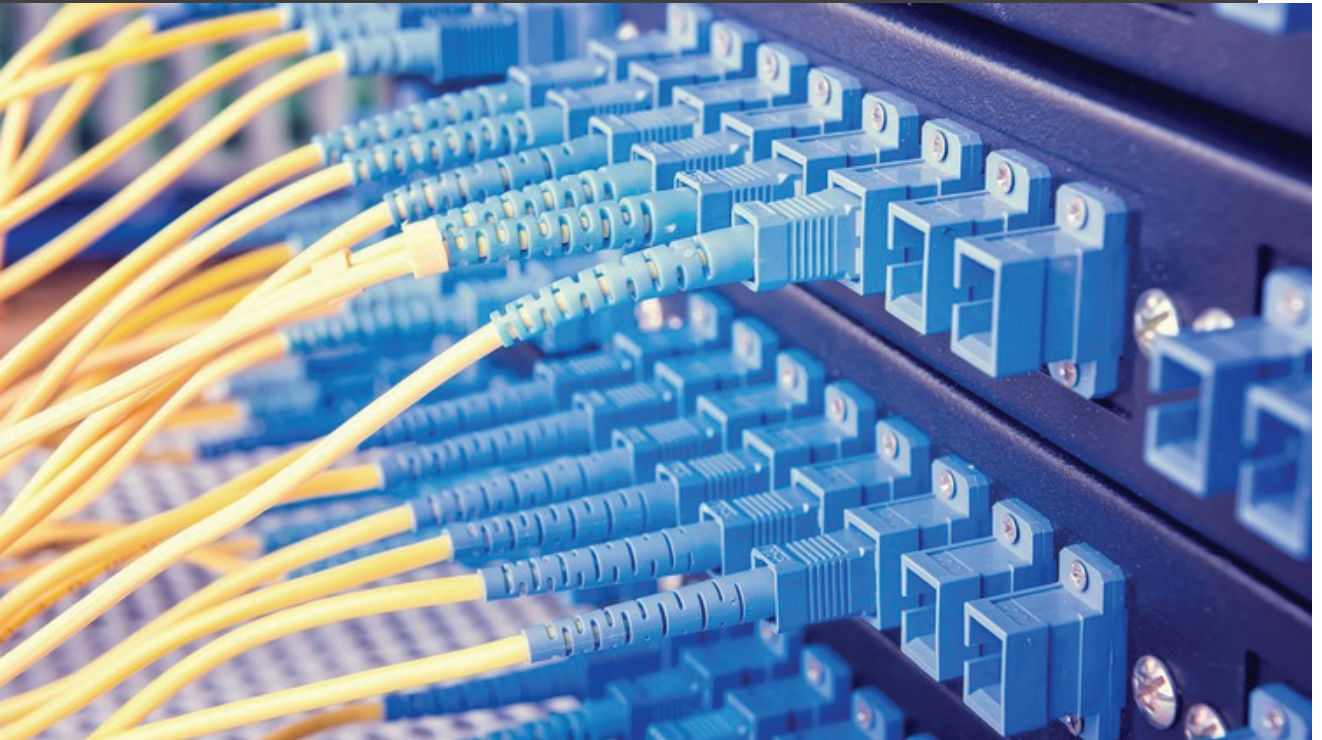
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01

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02

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Skills Factory Learning in partnership/collaboration/MOUs with apex Governmental educational and regulatory bodies and Government established Universities offers specialized career-oriented courses in Digital/Information Security, Networking, and Wellness. Courses align with Government-approved curriculum.

Skills Factory's certificate courses in Information Security, Networking, and Wellness will boost your knowledge to explore new opportunities, to create a secure and uninterrupted career growth path. Dig into the topics in step-by-step learning to master the subject with ease.

## CONTACT US

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