



CCNA

IP . SWITCHING . ROUTING .
VLANs . OSPF . ACLS . WIRELESS
ELESS . SECURITY . AUTOMATA

DURATION

80 Hours

LEVEL

**Beginner to
Intermediate**

MODULES

8

MODE

**Classroom ·
Online · Hybrid**

01 COURSE OVERVIEW

A CCNA-aligned networking course with configuration practice on switches and routers. The course follows the current CCNA blueprint: network fundamentals, access, IP connectivity, IP services, security fundamentals and automation, with hands-on configuration in Packet Tracer or on real gear throughout.

Learners build and troubleshoot a multi-site network and sit a mock exam.

WHO IT IS FOR

Graduates entering networking roles

IT support staff moving to network teams

System administrators broadening skills

Candidates preparing for CCNA 200-301

PREREQUISITES

Basic computer and operating system knowledge.

02 LEARNING OUTCOMES

01 Explain the OSI and TCP/IP models in practical terms.

03 Configure VLANs, trunking and inter-VLAN routing.

05 Apply access control lists and NAT.

07 Secure devices and set up wireless basics.

02 Subnet IPv4 and address IPv6 networks.

04 Configure static routing and OSPF.

06 Configure DHCP, DNS and NTP services.

08 Troubleshoot connectivity methodically.

01 NETWORK FUNDAMENTALS

Network components

Cabling and media

Encapsulation

Topologies

OSI and TCP/IP

Bandwidth and latency

02 IP ADDRESSING

IPv4 addressing

VLSM

SLAAC

Subnetting

IPv6 addressing

Address planning

LAB

SUBNET DESIGN

03 SWITCHING

Ethernet and MAC learning

Trunking and 802.1Q

EtherChannel

VLANs

STP

Port security

LAB

SWITCHED NETWORK

04 ROUTING

Routing tables

Default routes

Route selection

Static routes

OSPF single-area

Inter-VLAN routing

LAB

OSPF NETWORK

05 IP SERVICES

DHCP

NAT and PAT

SNMP

QoS concepts

DNS

NTP

Syslog

LAB

SERVICES CONFIGURATION

06 SECURITY FUNDAMENTALS

Device hardening

ACLs

VPN concepts

AAA concepts

Layer 2 threats

Password policy

LAB

ACL FILTERING

07 WIRELESS

WLAN components

WPA2 and WPA3

Site survey concepts

SSIDs and channels

Controller basics

08 AUTOMATION AND TROUBLESHOOTING

Controller-based networking

JSON

Structured troubleshooting

REST APIs

Ansible overview

Documentation

PROJECT

MULTI-SITE NETWORK BUILD AND MOCK EXAM

04 ASSESSMENT & CERTIFICATION

Module assignments and labs

25%

Mini projects

20%

Internal assessments

15%

Final project and review

40%

CERTIFICATION

Learners who complete all modules, submit the final project and clear the review receive a course completion certificate from Kaizen Infinities Private Limited. Project work is documented for the learner's portfolio, and interview preparation is included in the closing sessions.

05 CAREER OUTCOMES

ROLES THIS PROGRAMME PREPARES FOR

NETWORK ENGINEER

NETWORK SUPPORT ENGINEER

NOC ENGINEER

SYSTEM ADMINISTRATOR

INFRASTRUCTURE ENGINEER

CALL US

+91 73051 33996

EMAIL US

apply@kaizeninfinities.com

VISIT OUR WEBSITE

www.kaizeninfinities.com