DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

# Cisco Certified Design Intermediate Training

Design highly available campus fabrics, WAN and SD-WAN, QoS, multicast, security segmentation and automation-ready networks.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**3 days · Days 1-3** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · Included | 2 days · Included | 3 days · This curriculum | 5 days · Next step |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 31 topics · Foundation to Intermediate |
| Hands-on labs | 3 labs |
| Formats and fees | Live, 1:1, self-paced, corporate |
| Trainer and reviews | Rajesh Kumar |
| Enrolment | Batches, payment, contacts |


## WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

**Course page:** www.devopsschool.com/courses/cisco/cisco-certified-design-intermediate-training.html
**Talk to us:** WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

# What you will achieve

By the end of the Cisco Certified Design course path, you will be able to:

1

### Apply design methodology

Turn business and technical requirements into documented hierarchical and modular network designs.

2

### Design enterprise networks

Design routing, campus, SD-Access, WAN, SD-WAN, QoS and multicast for resilient enterprises.

3

### Lead expert design decisions

Justify trade-offs for data center, cloud, security and migration designs at expert level.

WHAT THE INTERMEDIATE LEVEL ADDS

### SD-Access, SD-WAN, QoS and network services

**Hands-on:** Design an SD-WAN branch architecture. Design a 20-branch SD-WAN with dual transports, application-aware routing, a QoS policy and segmentation tied to the campus fabric.

WHO SHOULD ATTEND

- Regular Cisco Certified Design users who want to automate, integrate and manage it at a deeper level.
- Specialists who support Cisco Certified Design for colleagues or customers.
- Leads preparing Cisco Certified Design for wider use across projects.

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Design scalable OSPF, EIGRP, IS-IS and BGP routing, IPv6 transition and resilient campus Layer 2 and Layer 3 access.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO INTERMEDIATE

# Cisco Certified Design Intermediate Training agenda

31 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

## DAY 1 — Foundation: Design methodology, hierarchy and addressing

Included from Foundation

1. Design methodology: plan, build and manage lifecycle, top-down design, business and technical requirements
2. Hierarchical network model: access, distribution and core layers, collapsed core designs
3. Modular enterprise architecture: campus, data center, WAN edge, internet edge and branch modules
4. Design principles: modularity, resiliency, scalability, simplicity and security by design
5. IPv4 addressing design: VLSM, private addressing and summarization-friendly allocation
6. IPv6 for designers: address types, prefix planning, SLAAC versus DHCPv6
7. Layer 2 fundamentals: VLANs, trunking and spanning tree variants and their design impact
8. Routing protocol overview: where OSPF, EIGRP, IS-IS and BGP each fit
9. Network audit: assessing an existing network and documenting constraints
10. Design documentation: diagrams, requirements traceability and design rationale

## DAY 2 — Essential: Routing protocol design and campus Layer 2/3

Included from Essential

11. IPv6 deployment: dual stack, tunneling and NAT64 with DNS64
12. OSPF design: areas, stub and NSSA areas, summarization and LSA scaling
13. EIGRP design: stub routers, summarization and hierarchical topologies
14. IS-IS design: levels, areas, wide metrics and IPv6 support
15. BGP design: iBGP full mesh versus route reflectors and confederations
16. BGP policy: communities, local preference, AS-path prepending and multihoming
17. Redistribution and filtering: route maps, tags and loop prevention
18. Convergence: BFD, timers and fast reroute basics
19. First-hop redundancy: choosing between HSRP, VRRP and GLBP
20. Campus Layer 2 design: STP toolkit (PortFast, BPDU Guard, Root Guard) and EtherChannel
21. Campus Layer 3 access: routed access versus Layer 2 access trade-offs

## DAY 3 — Intermediate: SD-Access, SD-WAN, QoS and network services

**New at this level**

22. Campus high availability: stacking, StackWise Virtual, SSO and NSF
23. SD-Access: fabric roles, LISP control plane, VXLAN data plane, Cisco ISE and TrustSec
24. WAN technologies: MPLS Layer 3 VPN, Metro Ethernet, internet VPN and DMVPN
25. Catalyst SD-WAN: Manager, Controller, Validator and WAN edge roles, overlay and application-aware routing
26. WAN resiliency: dual-homed branches, transport diversity and branch design profiles
27. QoS design: classification, DSCP marking, queuing, policing and shaping end to end
28. Multicast design: PIM sparse mode, SSM, rendezvous points and Anycast RP
29. Network services: DNS, DHCP and NTP design considerations
30. Security design: segmentation, firewall placement, ACL strategy and 802.1X

31. Automation for design: YANG models, NETCONF, RESTCONF and model-driven telemetry

PRACTICE

## Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

**Design a small campus network**

Gather requirements for a three-building campus and produce a hierarchical design with an IPv4 and IPv6 addressing plan and diagrams.

ESSENTIAL

**Design multi-area routing with BGP edge**

Produce a routing design for a multi-site enterprise with OSPF areas, summarization, redundant gateways and a dual-homed BGP internet edge.

INTERMEDIATE

**Design an SD-WAN branch architecture**

Design a 20-branch SD-WAN with dual transports, application-aware routing, a QoS policy and segmentation tied to the campus fabric.

HOW YOU CAN LEARN

## Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

| FORMAT | DURATION | WHAT YOU GET | FEE |
|---|---|---|---|
| **Live & interactive (online)** | Max 8-10 hours | Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month. | **INR 34,999** |
| **1:1 live training (online)** | Max 8-10 hours, one-to-one | The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace. | **INR 99,999** |
| **Self-paced video** | 1-year LMS access | All four Cisco Certified Design levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 3 days for this level | A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative). | **Quote on request** |

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

## Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

| | |
|---|---|
| **20** years in industry | **200+** corporate trainings |
| **10,000+** engineers mentored | **70+** organisations coached |

REVIEWS

## What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR CISCO CERTIFIED DESIGN TRAINING

## Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/cisco/

ENROL OR RESERVE A SEAT
**Cisco Certified Design Intermediate Training**

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**Next step after this level: Cisco Certified Design Advanced Training** - Lead expert-level designs that balance business constraints with data center, cloud, security and migration requirements.