DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Cisco Certified Design Advanced Training

Lead expert-level designs that balance business constraints with data center, cloud, security and migration requirements.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	42 topics · Foundation to Advanced
Hands-on labs	4 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-advance-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 ADVANCED LEVEL ADDS

Expert-level, business-driven enterprise design

Hands-on: Enterprise redesign case study. Solve a merger scenario end to end: assess two networks, design the target architecture and migration phases, and defend the trade-offs.

WHO SHOULD ATTEND

- Experienced Cisco Certified Design practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Cisco Certified Design solutions.
- Teams making Cisco Certified Design an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Design highly available campus fabrics, WAN and SD-WAN, QoS, multicast, security segmentation and automation-ready networks.
- 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 ADVANCED

Cisco Certified Design Advanced Training agenda

42 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

Included from Intermediate

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

DAYS 4-5 **Advanced: Expert-level, business-driven enterprise design** — New at this level

32. Business-driven design: translating budget, timeline, risk and compliance into design decisions
33. Large-scale routing: multi-level IS-IS and OSPF, BGP route reflection hierarchies
34. Data center design: spine-leaf, VXLAN EVPN fabrics and policy-based fabrics
35. Service provider style designs: MPLS L3VPN, segment routing basics and traffic engineering
36. Hybrid cloud connectivity: direct cloud interconnects and SD-WAN cloud on-ramps
37. High availability and disaster recovery: geo-redundancy and failure domain analysis
38. Security architecture: zero trust, segmentation at scale and SASE considerations
39. Migration and merger designs: IPv6 migration, routing protocol migration and network consolidation
40. Design validation: trade-off analysis, design reviews and stakeholder documentation
41. Scenario practice: case studies mapped to ENSLD 300-420 and CCDE topic areas
42. Capstone: end-to-end enterprise redesign with business justification

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.

ADVANCED

Enterprise redesign case study

Solve a merger scenario end to end: assess two networks, design the target architecture and migration phases, and defend the trade-offs.

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)	5 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/

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Cisco Certified Design Advanced Training

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