

NETWORK ELITE PROGRAMME

**BUILD
YOUR CAREER
IN
NETWORKING**



**NETWORKING
EXPERTISE**



**INDUSTRY
RELEVANT
TRAINING**



**CAREER
FOCUSED
LEARNING**



**HIGH
DEMAND
SKILLS**



LEARN • PRACTICE • GET CERTIFIED • GET AHEAD



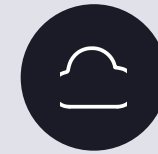
Core Curriculum Pillars

Four foundational areas that transform connectivity specialists into infrastructure architects



Application & Endpoint Intelligence

Stop treating the network as "just plumbing." Master how applications like Teams, Zoom, SAP, and Salesforce actually interact with the wire. Deep dive into DNS resolution, DHCP behaviors, MTU/fragmentation, and modern access methods including Global Protect VPN and Zscaler ZTNA.



Integrated Infrastructure & Hybrid Cloud

Bridging the gap between the rack and the cloud. Master compute integration with server hardware, hypervisor networking (ESXi/KVM), VMware virtual switching, and hybrid architectures including Site-to-Site VPNs, SD-WAN, and Private Cloud connectivity.



Modern Access & Security

Transitioning to a Zero-Trust mindset. Implement Enterprise Browser Security, Secure Internet Access (SIA), Zero Trust Private Application Access, and master VoIP fundamentals with Cloud Telephony architectures designed for Indian regulatory requirements.



Real-World Design & Observability

Mastering the "Macro" view of the network. Compare 2/3 Layer Campus designs versus Data Center Spine-Leaf architectures, learn to translate physical layouts into logical traffic flows, and evolve from "Is the port up?" to "How is the user experience?"

Trainer Profile

Network Operations & Engineering Professional

Our trainer brings **19+ years** of enterprise and service provider network experience, backed by five industry certifications spanning network engineering (CCNP), service provider infrastructure (CCNP SP), network design (CCDP), cybersecurity (PCNSA), and project management (CAPM). Students learn from someone who has designed and operated real-world networks at scale.

CCNP



Cisco Certified Network Professional

CCNP SP



Service Provider Specialist

CCDP



Cisco Certified Design Professional

CAPM



Certified Associate in Project Management

PCNSA



Palo Alto Networks Security Administrator

The "Master Tech" Troubleshooting Labs

Our labs don't use "textbook" errors. You will be dropped into Real-World Scenarios that simulate actual production issues encountered in enterprise environments. These hands-on exercises build the diagnostic intuition that separates L2 technicians from L3 architects.

Lab Scenarios Include

- Identifying bottlenecks between SaaS providers and on-premise users
- Diagnosing one-way audio and jitter in complex QoS environments
- Troubleshooting traffic that "won't mature" in firewalls or NAT translation failures
- Rapidly identifying and mitigating Layer 2 loops and route learning failures



Strategic Design & Procurement

Learn the "Why" behind the "How"



Business Alignment

Translating business requirements into IP Addressing and High Availability (HA) designs that meet organizational objectives.



Vendor Evaluation

Understanding the procurement lifecycle—evaluating vendors, creating Bill of Quantities (BoQ), and managing hardware lifecycle decisions.



Cost Optimization

Balancing performance requirements with budget constraints while maintaining architectural integrity and future scalability.

 This course ensures you can not only configure devices but architect solutions that align technical capabilities with business value.

Who Should Attend?



L2 Engineers

Looking to step into Senior/L3 roles and take ownership of architectural decisions rather than just implementing configurations.



Network Administrators

Moving into Cloud/Hybrid Infrastructure and needing to bridge traditional networking with modern cloud-native patterns.



Site Reliability Engineers

Who need a deeper understanding of the underlying physical and logical transport layers that enable distributed systems.

To ensure this remains a high-impact "Elite" programme, the schedule is structured as a 10-week intensive (or a 10-day bootcamp), transitioning from the "Edge" (Endpoints) to the "Core" (Data Center/Cloud) and finally to "Strategy" (Design/Troubleshooting).

10-Week Curriculum Roadmap

Week	Focus Area	Key Lab Exercise
1	The Endpoint & DNS	"The Local Stack": Debugging Windows routing tables and NIC driver conflicts
2	App-Aware Networking	"The SaaS Squeeze": Using Wireshark to identify packet loss in Teams/Zoom traffic
3	Virtualization & Compute	"The Hypervisor Bridge": Configuring VMware vSwitches and Level 1 vs. Level 2 tagging
4	Hybrid Connectivity	"The Cloud Tunnel": Building a resilient Hub-and-Spoke VPN with a Transit Gateway
5	Zero Trust & ZTNA	"Zscaler Shift": Migrating a legacy "Always-On" VPN to a ZTNA private access model
6	Telephony & QoS	"The Silent Caller": Diagnosing one-way audio and jitter on a SIP trunk
7	Data Center Fabric	"Spine-Leaf Logic": Mapping East-West traffic flows in a Cisco ACI/VXLAN environment
8	Diagrams & Flow	"The Mapmaker": Reconstructing a logical topology from a messy physical patch-panel
9	Advanced Troubleshooting	"The Layer 2 Ghost": Identifying a flapping port and a root bridge conflict in real-time
10	Design & Procurement	"The BoQ Challenge": Designing a HA network for a new branch based on a \$50k budget

The Elite Lab Toolkit

We don't just use "simulation"—we use the tools you will encounter in high-end enterprise environments:



Hardware & Virtualization

- Hypervisors: VMware ESXi 8.0, Proxmox (for Level 1/2 comparison)
- Networking Gear: Cisco Catalyst (Campus), Nexus (DC), Arista (Leaf/Spine)
- SD-WAN: Silver Peak or Cisco Viptela labs



Security & Access Tools

- VPN/ZTNA: Palo Alto GlobalProtect, Zscaler Private Access (ZPA) tenants
- Firewalls: FortiGate and Palo Alto Next-Gen Firewalls (NGFW)
- EDR Integration: SentinelOne or CrowdStrike (understanding network stack hooks)



Observability & Analysis

- Packet Analysis: Wireshark (Advanced Filter Logic), TCPDump
- Monitoring: SolarWinds, PRTG, ThousandEyes (SaaS/Cloud path visualization)
- Testing: Spirent or Ixia (simulating high-load application traffic)

Entry Requirements & L3 Competency

Pre-Enrolment Knowledge

Candidates must demonstrate proficiency in:

- **Core Routing:** Basic BGP (neighbor states, AS paths) and OSPF (areas, DR/BDR election)
- **Switching:** VLAN tagging (802.1Q), STP fundamentals, LACP EtherChannel
- **Security:** Standard ACLs, NAT/PAT, basic Phase 1/Phase 2 VPN concepts
- **Tooling:** SSH/Telnet, ping/traceroute analysis, basic Wireshark captures
- **System Basics:** IP addressing/Subnetting (VLSM), Windows/Linux CMD networking commands

L3 Competency Rubric

How we grade the final "Reality Check" exam:

- **Troubleshooting:** Identifies why the application is slow (TCP Window Scaling, Latency) vs. just where the link is down
- **Design:** Can create High-Availability (HA) design from blank page vs. just follow provided diagram
- **Documentation:** Maps full logical traffic flows and security trust zones vs. just record IP addresses
- **Communication:** Explains business impact and MTTR vs. just "The router is broken"

L3 Readiness Assessment

Candidates have 45 minutes. A score of 7/10 is required for Elite entry.

Section A: Infrastructure & Flow

1. **The MTU Mystery:** User can ping Google but cannot load heavy ERP over Site-to-Site VPN. What's the culprit and how to verify with Windows CMD?
2. **The Default Gateway:** VM cannot reach internet but can ping other VMs. Physical Switch trunk port is UP. Where to look next in vSphere stack?
3. **The Routing Loop:** OSPF flapping route shows "Duplicate Router ID." Explain impact on SPF calculation and resolution without bringing down area.

Section B: Modern Access & Security

1. **The ZTNA Transition:** Moving from traditional VPN to Zscaler ZPA. Why does "Local Printer Discovery" break by design?
2. **The DNS Chain:** Explain difference between Iterative and Recursive DNS queries. If internal DNS server is down but 8.8.8.8 is secondary, why might browsing still feel broken?
3. **The Firewall "Mature" Issue:** Session shows TCP_FIN or Age-out with 0 bytes returned. Policy issue or routing/upstream issue? Justify.

Section C: Troubleshooting & Design

1. **The One-Way Voice:** Teams call—external party hears internal user but not vice versa. Which Network/Security feature blocks return RTP stream?
2. **The L2 Loop:** Suspected broadcast storm shows 99% utilization. Besides shutting port, what command identifies Root Bridge to see if shifted?
3. **The BGP Path:** Dual-homed branch sends all traffic out ISP-B but want ISP-A primary. Cannot change ISP config. Which BGP attribute manipulate?
4. **The ARP Table:** Server moved to different port/VLAN kept same IP. Old VLAN servers cannot ping it. How long does Cisco ARP cache stay active and how to force refresh?



Ready to Elevate Your Career?

Programme Details

Duration: 10 weeks (intensive) or 10-day bootcamp

Format: Hands-on labs with enterprise-grade equipment

Prerequisites: L2 networking fundamentals (7/10 on readiness assessment)

Outcome: Formal L3 Competency certification and architectural readiness

Investment

₹59,000

All lab equipment, course materials, and certification included

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