

CCIE

(Enterprise Infrastructure)

COURSE OUTLINE



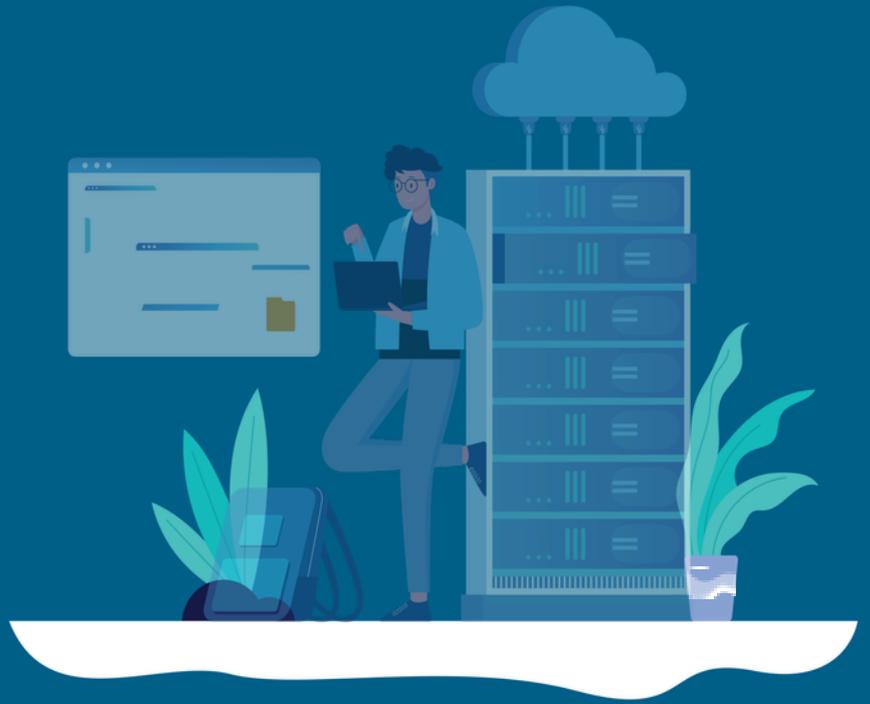
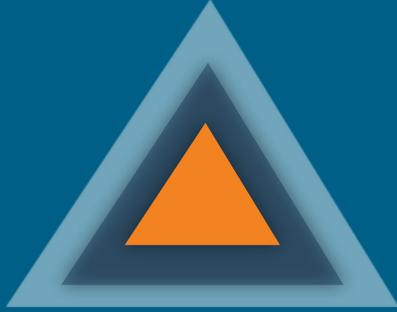
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NS3EDU: BRIDGE
YOUR

IT DREAMS
TO REALITY



EMPOWERING CAREERS THROUGH KNOWLEDGE

Looking to make it big in the world of IT networking? Look no further than NS3Edu! We help beginners learn the ropes & experienced pros master new skills. Come join us and build your dream career!

MISSION

The mission of NS3Edu is to

empower our candidates with in-depth knowledge of IT fundamentals along with real-time industry experience and also take 100% responsibility for the placement by making them Industry fit.

CERTIFICATES



VISION

In-depth knowledge + hands-on experience + analytical thinking = placement



Learning



Opportunity



Experience

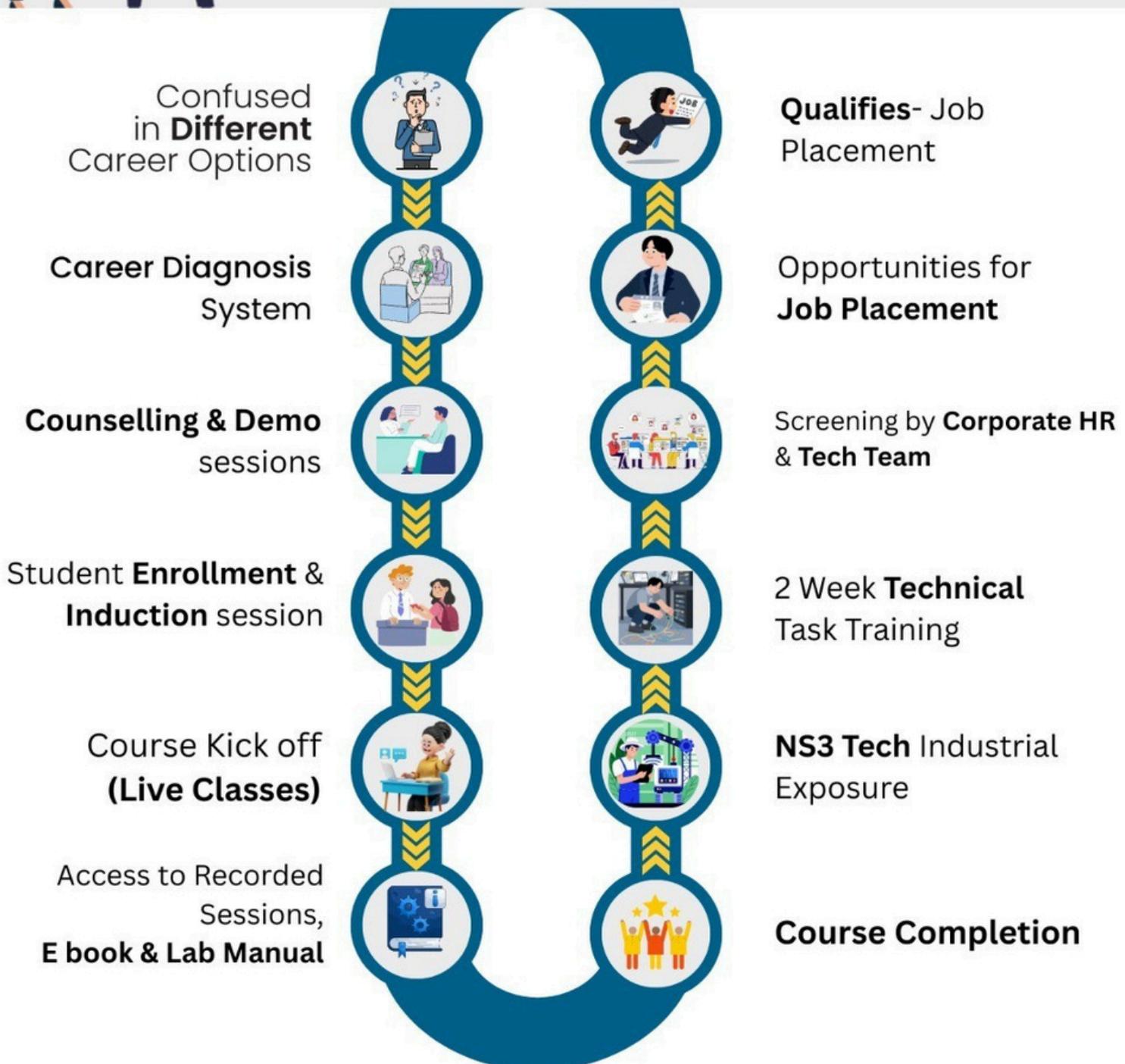


Career



ROADMAP OF **JOB**

PLACEMENT



WHAT MAKES US UNIQUE?

USP'S

Industry Demand &
Customized Courses



Course Outline

LEVEL 1: Enterprise Core Technologies (ENCOR Mastery).

Part 1: Advanced Enterprise Network Architecture

- Enterprise Network Design Models
- Campus, Branch & WAN Architecture
- Underlay vs Overlay
- Control Plane, Data Plane & Management Plane
- High Availability Design Principles

Part 2: Advanced Switching Technologies

- Enterprise VLAN Design
- STP Deep Dive (RSTP, MSTP)
- Loop Prevention Mechanisms
- EtherChannel (L2 / L3)
- High Availability Switching Design

Part 3: Advanced Routing Technologies

- Advanced OSPF (Multi-Area, Optimization)
- EIGRP Advanced Concepts
- BGP Deep Dive (Enterprise & ISP)
- Route Redistribution (Complex Scenarios)
- Path Control & Traffic Engineering



Part 4: Enterprise Wireless Architecture

- Enterprise WLAN Design
- Wireless Capacity & Coverage Planning
- Roaming & Mobility
- Wireless Security (802.1X, WPA3)
- High Density WLAN Design

LEVEL 2: SDN, Security & Automation **(Enterprise at Scale)**

Part 5: Software-Defined Networking (SDN)

- SDN Architecture
- Controller-Based Networking
- Policy-Based Networking
- Intent-Based Networking

Part 6: Cisco SD-WAN (Enterprise Grade)

- SD-WAN Architecture
- Underlay & Overlay Design
- Centralized Policy Control
- Application-Aware Routing
- WAN Optimization & SLA

Part 7: Network Security Integration

- Enterprise Security Architecture
- ACLs & Firewall Integration
- VPN (Site-to-Site & Remote Access)
- Zero Trust Network Design
- Identity-Based Access Control (Cisco ISE Intro)

Part 8: Automation & Programmability

Network Automation Concepts

REST APIs

Cisco DNA Center Automation

Python for Network Engineers

Infrastructure as Code (Intro)

LEVEL 3: CCIE Lab Technologies & Expert Troubleshooting

Part 9: Advanced Infrastructure Services

- DHCP, DNS, NTP (Enterprise Scale)
- QoS Design & Implementation
- Multicast (PIM, IGMP)
- Network Time & Synchronization

Part 10: Enterprise Monitoring & Assurance

- Network Telemetry
- SNMP, Syslog, NetFlow
- Performance Monitoring
- Fault Isolation Techniques

Part 11: CCIE–Level Troubleshooting

- Structured Troubleshooting Methodology
- Multi–Technology Failure Scenarios
- Root Cause Analysis
- Time–Bound Troubleshooting Practice

Part 12: Full–Scale Enterprise Design Scenarios

- Greenfield & Brownfield Design
- Enterprise Upgrade & Migration
- Multi–Site Enterprise Network
- High Availability & Disaster Recovery

LEVEL 4: CCIE Lab Exam **Preparation (Final Phase).**

Part 13: CCIE Lab Exam Strategy

- CCIE Lab Blueprint Breakdown
- Time Management Strategy
- Configuration vs Troubleshooting Approach
- Avoiding Common Lab Mistakes

Part 14: Mock Labs & Full Simulations

- 2-Hour, 4-Hour & 8-Hour Mock Labs
- Real CCIE-Style Scenarios
- Performance Review & Optimization
- Weak Area Identification

Part 15: Career, Branding & CCIE Life

- CCIE Career Opportunities
- Enterprise Architect Roles
- Salary & Global Demand
- Resume & LinkedIn Branding
- Post-CCIE Growth Path

OUR PLACEMENT PARTNERS



YOUR FUTURE OUR RESPONSIBILITY



Free consulting



Get trained with certified trainers



24X7 Lab access



Employability enhancement program



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CYBER SECURITY



CLOUD SERVICE



FULL STACK DEVELOPMENT



DIGITAL MARKETING



DATA SCIENCE



AI ML LEARNING