NS3EDU.

Learn Today $ Earn Tomorrow

CCNP Data Center

COURSE OUTLINE

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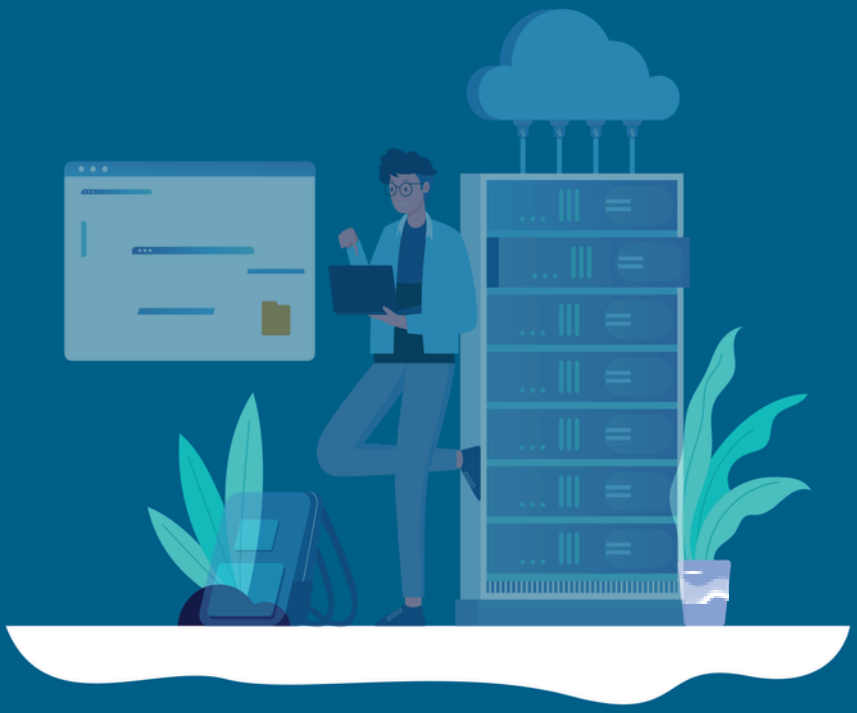
NS3EDU: BRIDGE YOUR IT DREAMS TO REALITY



EMPOWERING CAREERS THROUGH KNOWLEDGE

Lookingto makeitbigin 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

Themissionof NS3Eduisto

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

ROADMAP OF JOB PLACEMENT

Confused in **Different** Career Options

Career Diagnosis System

Counselling & Demo sessions

Student **Enrollment** & **Induction** session

Course Kick off **(Live Classes)**

Access to Recorded Sessions, **E book & Lab Manual**

Qualifies- Job Placement

Opportunities for **Job Placement**

Screening by **Corporate HR** & **Tech Team**

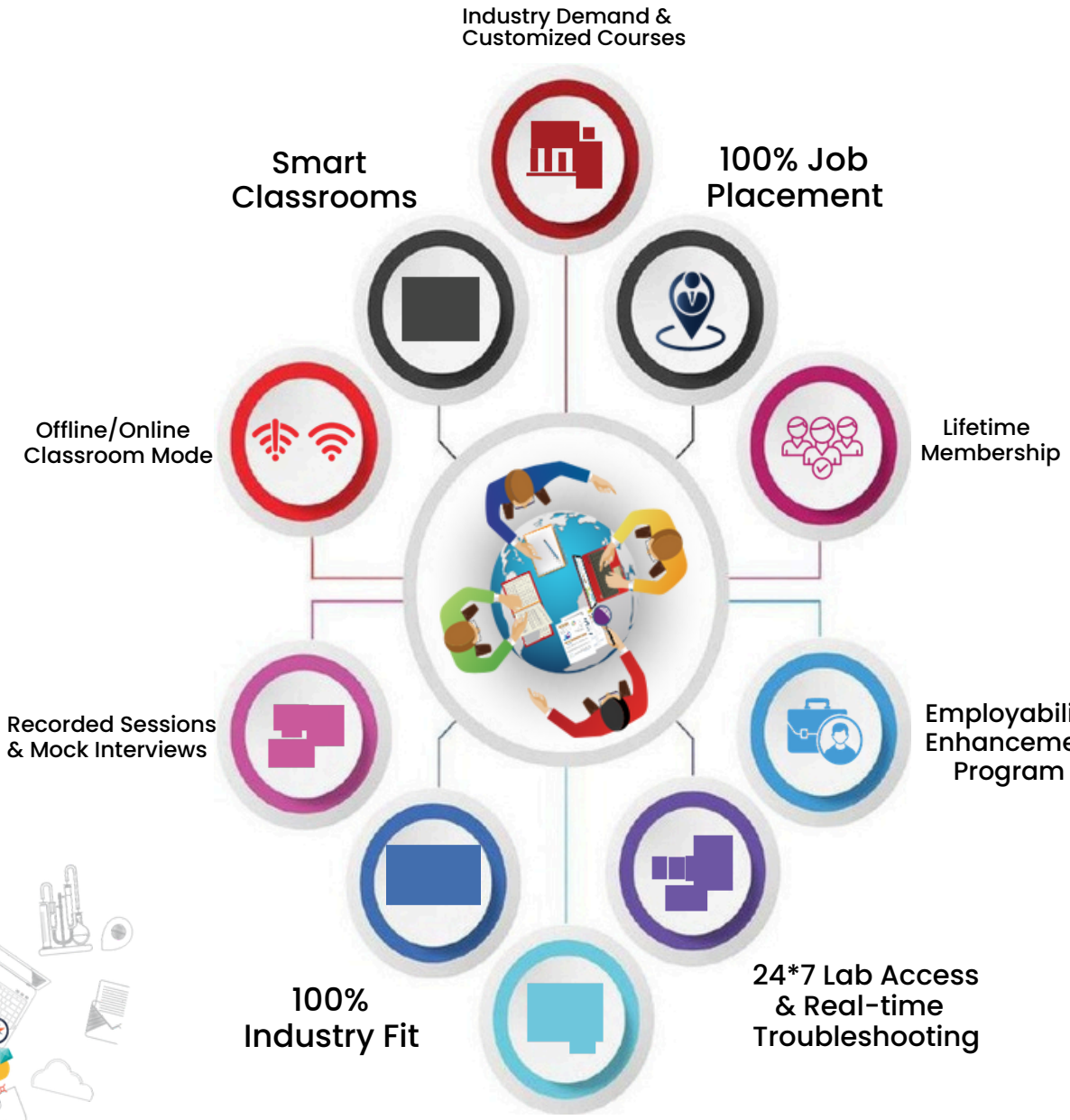
2 Week **Technical** Task Training

NS3 Tech Industrial Exposure

Course Completion

WHAT MAKES US UNIQUE?

USP'S



Course Outline

LEVEL 1: Data Center Core Foundations (Professional Level)

Part 1: Data Center Architecture & Design

- Data Center Overview
- Traditional vs Modern Data Centers
- Three-Tier vs Spine-Leaf Architecture
- High Availability & Redundancy
- Data Center Cabling & Physical Design

Part 2: Data Center Networking Basics

- Role of Switching in Data Centers
- Nexus Switching Overview
- VLANs & Trunking in Data Centers
- vPC (Virtual Port Channel) Basics
- Redundancy & Loop Prevention

Part 3: Advanced Data Center Switching

- Cisco Nexus Features
- vPC Advanced Concepts
- STP vs vPC
- FabricPath Overview
- QoS in Data Centers

Part 4: Data Center Routing

- Routing in Data Centers
- OSPF & BGP in Data Centers
- Anycast Gateway
- Route Optimization

LEVEL 2: Compute, Storage & Virtualization (Enterprise Level)

Part 5: Cisco UCS (Unified Computing System)

- UCS Architecture
- Fabric Interconnects
- Service Profiles
- Server Provisioning
- UCS Management

Part 6: Storage Networking

- Storage Basics
- SAN vs NAS
- Fibre Channel Fundamentals
- FCoE Concepts
- Zoning & LUNs

Part 7: Virtualization & Hypervisors

- Virtualization Concepts
- VMware ESXi Overview
- Virtual Switching (vSwitch, DVS)
- VM Networking Basics

Part 8: Data Center Security

- Data Center Security Principles
- Network Segmentation
- Firewalls in Data Centers
- Micro-Segmentation Basics

LEVEL 3: Modern Data Center Technologies & Automation (Expert Level)

Part 9: Cisco ACI (Application Centric Infrastructure)

- ACI Architecture
- Spine-Leaf Fabric
- APIC
- Tenants, VRFs & Bridge Domains
- Application Profiles & Contracts

Part 10: Automation & Programmability

- Automation in Data Centers
- REST APIs
- Python Basics
- Automation Use-Cases

Part 11: Monitoring & Troubleshooting

- Data Center Monitoring Tools
- Performance & Capacity Monitoring
- Troubleshooting Methodology
- Common DC Issues

Part 12: Cloud & Hybrid Data Centers

- Hybrid Data Center Concepts
- On-Prem to Cloud Connectivity
- Data Center in Multi-Cloud

Part 13: Real-World Data Center Projects

- Enterprise Data Center Design
- UCS + Nexus Deployment Project
- ACI-Based Data Center Fabric
- Storage & Virtualization Integration
- Data Center Troubleshooting Scenarios

Part 14: Career & Certification Preparation

- CCNP Data Center Certification Overview
- DCCOR Exam Blueprint
- Data Center Engineer Roles
- Interview Questions & Scenarios
- Resume & Project Portfolio Guidance
- Mock Interviews

OUR PLACEMENT PARTNERS