

NS3EDU.

Learn Today  Earn Tomorrow

# CCIE Enterprise

## 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

Confused in **Different** Career Options



**Qualifies-** Job Placement



Counselling & **Demo** sessions



Opportunities for **Job** Placement



Student Enrollment & Induction **session**



Screening by Corporate **HR & Tech** Team



Course **Kick off** (Live Classes)



2 Week **Technical Task** Training



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



NS3 Tech **Industrial** Exposure



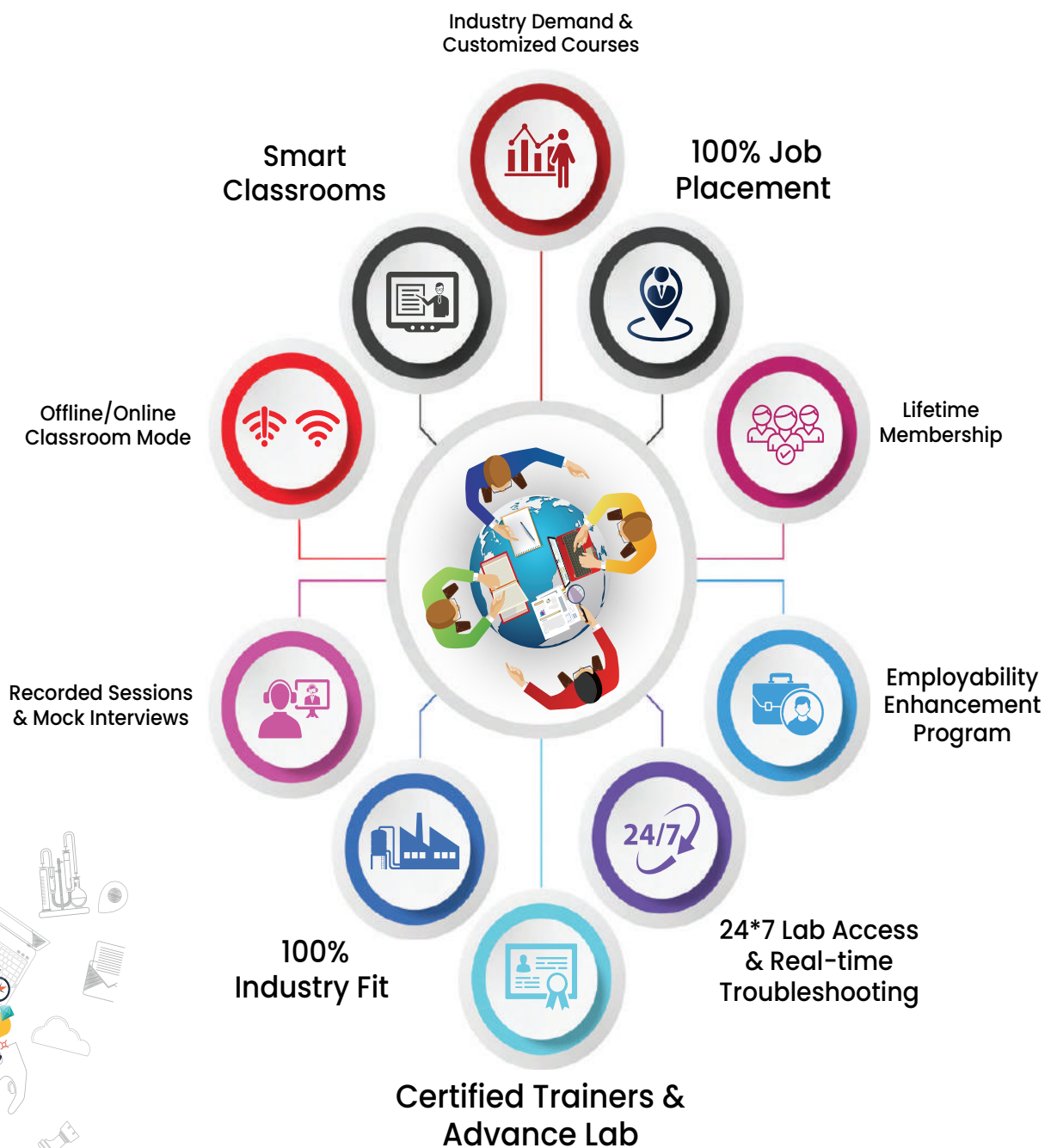
Course **Completion**





# WHAT MAKES US UNIQUE?

## USP's



# COURSE OUTLINE

## Week 1

- Static routing with vrf
- EIGRP classic with stub leak map, EIGRP named mode, wide metric calculation
- EIGRP Fast convergence requirement, IP FRR
- OSPF spf and lsa throttling, fast hello packet, ttl-security
- Ospf loop free alternate, prefix-suppression, ospfv3 with ipv4 and ipv6

## Week 2

- BGP basics overview, path attributes
- bgp policy, filtering, communities, conditional advertisement
- bgp as prepend, allowas-in, remove-private-as, regex ( Covered with MPLS )BGP path selection algorithm
- bgp rr, confederation
- aggregation, as-set, multi-path, add pathBGP (v4 and v6 for IBGP and EBGP)

## Week 3

- route-refresh, bgp ipv6 over ipv4
- 12 Multicast, igmp, igmp snooping, SSM
- 13 PIM dense mode, sparse mode, static rpIPv6 transition (NAT44, NAT64, 6RD, MAP, and DS Lite)
- 14 dynamic rp, autorp, bootstrap, autorp listener, sparse-dense mode
- 15 Multicast boundary, rp announcement filtering, anycast rp with MSDP

## Week 5

- Ipsec with dmvpn using IKEv2
- overview of Flex vpn with server and client, IKEv2
- VACL, PACL, Storm control, ip source guard
- RA guard, source guard, device tracking
- Redundancy using ipv6 RA/RS, NAT with policy and vrf

## Week 6

- Netflow, flexible net flow, span, rspan, erspan
- SDWAN use case, device introduction, control plane
- TLOC, OMP path attributes, route-types
- Device certification, vedge onboarding, vpns
- Template configuration, basics, interface, vpn, ospf, bgp

## Week 7

- Policies localized policy
- Centralized policy with control and data plane
- left part of sdwan
- SDA introduction, controller, devices overview, underlay network
- Overlay network, LISP, VXLAN, Cisco trust sec

## Week 8

- Fabric domain with single site and multisite overview
- Host onboarding and bgp handoff
- Network segmentation VN's and SGT's, network assurance
- Overview of json and xml
- Scripting with guest shell on cli python module

## Week 9

- API interaction with vManage using Postman
- 42 API interaction with DNA using Postman
- 43 Interaction with Cisco-ios-xe with API, Netconf and restconf
- 44 Introduction to Spanning tree , Root Bridge election , How to calculate loop free topology
- 45 Basic practical of spanning tree on Rack , Root Bridge
- Manipulation method, Cost manipulation , explain STP Port states

## Week 10

- Explain PVST + and CST Difference , Show practical of load balancing
- Introduction to RSTP , RSTP Port States , RSTP synchronization + Practical
- Topology change in PVST + and RSTP
- (compare and show which is better)
- STP Mechanism --STP Protection with practical
- Introduction to MST , Intra region MST and Inter region MST

## Week 11

- Introduction to VTP , VTP Version 1 , version 2 ( Check book what content to cover )
- 52 VTP version 3 with practical
- 53 Introduction to etherchannels , Requirement , Static, Dynamic ( PAGP and LACP)
- 54 practical of etherchannel , L3 etherchannels
- 55 vlan acl, port acl

# OUR PLACEMENT PARTNERS



Learning



Opportunity



Experience



Career

# ACHIEVEMENTS



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