



Signellent
Technologies(I) Pvt Ltd.

After you complete this course, you will be able to describe and implement

- Discuss the CCIE R&S Lab Program and its content and elaborate on approach to expertise technologies needed to clear the CCIE Lab-test exam
- Do discussions on your “baseline” status for “Cisco CCIE Lab readiness”
- You will be an Expert in “L2 features and functions”. You will also master the skills of doing analysis, monitoring & configuration and at the same time troubleshooting “L2 Technologies”.
- You will have the expertise in resolving “expert level IPv4” and “Ipv6 connectivity” issues
- You will have the expertise in L3 Protocols, develop proficiency on L3 features and functions. You will also master the skills of doing analysis, monitoring & configuration and troubleshooting L3 Protocols.
- Expertise BGP, develop proficiency on multi-homed environment, BGP attributes and master the skills of monitoring, analysis, configuration and troubleshooting BGP
- Will be able to resolve "expert level core task" in multiple protocol environment, configuration, analysis and also troubleshooting looping issue
- Will be able to resolve “expert level” MPLS L3 VPN, DMVPN configuration tasks
- You will have expertise in “Multicast” and its protocols. Also, you’ll have proficiency on analysis, configuration and troubleshooting “Multicast”
- You will have the expertise in “MQC QoS features and functions”. Along with it, you will also master the talent in analysis, configuration and troubleshooting QoS Techniques.
- Resolve and configure expert-level IP / Network Services task, Monitor, analyze, configure and troubleshoot issues related to IP / Network Services

SIGNELLEMENT TECHNOLOGIES INDIA PVT. LTD.

Batch Timings

Daily Morning Batches	2 Hrs	7 am - 9 am
Daily Evening Batches	2 Hrs	7 pm - 9 pm
Fast Track Full Time (Monday - Friday)	8 Hrs	10 am - 6 pm
Weekend Batches		
Saturday	8 Hrs	10 am - 6 pm
Sunday	8 Hrs	10 am - 6 pm

**For any other information
and a FREE consultation session,
call us NOW!**

Counsellor

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Borivali / Thane / Ahmedabad / Gurgaon

CCIE Enterprise Infrastructure

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Maharashtra 400601.

www.signellent.in

CCIE Enterprise Infrastructure (v1.0) - LAB

Network Infrastructure

Switched campus

- Switch administration
- Layer 2 protocols
- VLAN technologies
- i LACP, manual 1.1.d ii Layer 2, layer 3.
- Spanning-Tree

Routing Concepts

EIGRP

- Adjacencies
- Best path selection
- Operations
- EIGRP load-balancing
- EIGRP named mode
- Optimization, convergence & scalability

OSPF (v2 and v3)

- Adjacencies
- Network types, area types
- Path preference
- Operations
- Optimization, convergence & scalability

BGP

- IBGP and EBGP peer relationships
- Path selection
- Routing policies
- AS path manipulations
- Convergence and scalability
- Other BGP features

Multicast

- Layer 2 multicast
- Reverse path forwarding check
- PIM

Software Defined Infrastructure

Cisco SD Access

- Design a Cisco SD Access solution
- Cisco SD Access deployment
- Segmentation
- Assurance

Cisco SD WAN

- Design a Cisco SD-WAN solution
- WAN edge deployment
- Configuration templates
- Localized policies (only QoS)
- Centralized policies

Transport Technologies and Solutions

MPLS

- Operations
- L3VPN

DMVPN

- Troubleshoot DMVPN phase 3 with dual-hub
- Identify use-cases for FlexVPN

Infrastructure Security and Services

Device Security on Cisco IOS XE

- Control plane policing and protection
- AAA

Network Security

- Switch security features
- Router security features
- IPv6 First Hop Security features
- IEEE 802.1X Port-Based Authentication

System Management

- Device management
- SNMP
- Logging

Quality of Service

- End to end L3 QoS using MQC

Network Services

- First-Hop Redundancy protocols
- Network Time Protocol
- DHCP on Cisco IOS
- IPv4 Network Address Translation

Network optimization

- IP SLA
- Tracking object
- Flexible netflow

Network operations

- Traffic capture
- Cisco IOS-XE Troubleshooting tools

Infrastructure Automation and Programmability

Data encoding formats

- JSON
- XML

Automation and scripting

- EEM applets
- Guest shell

Programmability

- Interaction with vManage API
- Interaction with Cisco DNA Center API
- Interaction with Cisco IOS XE API
- Deploy & verify model-driven telemetry