



Service Provider Routing and Switching Expert (JNCIE-SP)

Online Course



For contact: +91 8680961847
+91 9600579474

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Course Modules

1. System features

- Syslog
- User accounts
- NTP, SNMP, and AAA

2. Secure control plane

- Firewall filters

3. Automation scripts

- NETCONF
- Event options
- Python on-box op, commit, event, and SNMP scripts

4. Configuration and troubleshooting

- MTU issues
- Authentication
- Level/area mismatch
- Address issues
- Routing loop
- IGP for IPv4 and IPv6 (OSPF and IS-IS)
- Routing policy



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5. Configuration and troubleshooting

- Route reflection
- Multi-homing
- Confederations
- BGP adjacency formation

6. BGP path selection

- Load balancing
- BGP attributes

7. Routing Policy

- Regex
- Route redistribution
- BGP communities

8. Configuration and troubleshooting

- Seamless MPLS
- LDP tunneling
- IPv6 tunneling
- RSVP signaling
- LDP signaling

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9. Traffic engineering

- Shared risk link group
- RSVP bandwidth constraint configuration
- TED
- IGP-BGP
- Administrative groups
- ERO

10. High-availability techniques

- FRR
- Node and link protection
- LDP protection
- LFA

11. Layer 3 VPNs

- Carrier-of-carrier VPNs
- Interprovider VPN
- PE-CE routing variations
- IPv6
- Route targets
- Egress node protection



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12. Layer 2 VPNs

- VPLS
- L2circuit
- EVPN
- L2VPN

13. Configuration and troubleshooting

- NG-MVPN
- PIM-SSM
- PIM-SM
- Anycast RP/MSDP

14. Configuration and troubleshooting

- Classification (MF, BA)
- Scheduling
- Queueing
- Rewriting
- CBF



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