



Enterprise Routing and Switching Expert (JNCIE-ENT)

Online Course



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Enterprise Routing and Switching Expert (JNCIE-ENT)

Course Modules



1. On-box and off-box scripts

- Commit, OP, and event scripts
- PyEZ scripts

2. Junos Space

- Importing devices into Network Manager
- Configuration Management

3. CoS configuration and troubleshoot

- Multiple queues
- BA classifier
- Multifield classifier
- Rewrite rules
- Policers
- EVPN configuration and troubleshoot

4. OSPFv2, OSPFv3, and IS-IS

- Authentication
- Multi-area OSPF
- NSSA
- IPv4 routes using OSPFv3



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5. BGP troubleshoot and configuration

- Multi-ISP routing
- IBGP route-reflector
- Resolution of BGP Hidden Routes

6. BGP route-selection process

- IBGP, LOCAL_PREF, AS-Path, Prepend/MED
- Protocol preferences
- BGP communities

7. Device-level security

- Securing local control plane



8. Interfaces

- AE interface
- LACP
- VRRP

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9. System-level configurations

- SNMP
- System logging
- User account
- DHCP services
- NTP

10. VLAN

- IRB interfaces
- Private VLAN
- 802.1Q tunneling
- Native VLAN



11. Spanning tree protocols

- Root bridges, root ports, designated ports
- Various guards for Spanning Tree

12. POE and telephony functions

- VoIP VLAN assignments, VoIP class of service
- POE and LLDP-MED



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13. Layer 2 security

- DAI, DHCP snooping, storm control
- Layer 2 interface security features



14. Protocol independent routing policy

- Aggregate, generate, qualified next hops, and static routes
- Filter-based forwarding
- GRE tunnels



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in terms of time management,
flexibility, and the ability
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