**350-401 Implementing Cisco® Enterprise Network Core Technologies (ENCOR) Training Course**

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| **350-401 Implementing Cisco® Enterprise Network Core Technologies (ENCOR)** | **Topics**  |
| Course Contents  | Examining Cisco Enterprise Network Architecture |
| Understanding Cisco Switching Paths |
| Implementing Campus LAN Connectivity |
| Building Redundant Switched Topology |
| Implementing Layer 2 Port Aggregation |
| Understanding EIGRP |
| Implementing OSPF |
| Optimizing OSPF |
| Exploring EBGP |
| Implementing Network Redundancy |
| Implementing NAT |
| Introducing Virtualization Protocols and Techniques |
| Understanding Virtual Private Networks and Interfaces |
| Understanding Wireless Principles |
| Examining Wireless Deployment Options |
| Understanding Wireless Roaming and Location Services |
| Examining Wireless AP Operation |
| Understanding Wireless Client Authentication |
| Troubleshooting Wireless Client Connectivity |
| Introducing Multicast Protocols |
| Introducing QoS |
| Implementing Network Services |
| Using Network Analysis Tools |
| Implementing Infrastructure Security |
| Implementing Secure Access Control |
| Understanding Enterprise Network Security Architecture |
| Exploring Automation and Assurance Using Cisco DNA Centre |
| Examining the Cisco SD-Access Solution |
| Understanding the Working Principles of the Cisco SD-WAN Solution |
| Understanding the Basics of Python Programming |
| Introducing Network Programmability Protocols |
| Introducing APIs in Cisco DNA Centre and vManage |
| Lab outline | Investigate the CAM |
| Analyse Cisco Express Forwarding |
| Troubleshoot VLAN and Trunk Issues |
| Tuning Spanning Tree Protocol (STP) and Configuring Rapid Spanning Tree Protocol (RSTP) |
| Configure Multiple Spanning Tree Protocol |
| Troubleshoot EtherChannel |
| Implement Multi-area OSPF |
| Implement OSPF Tuning |
| Apply OSPF Optimization |
| Implement OSPFv3 |
| Configure and Verify Single-Homed EBGP |
| Implementing Hot Standby Routing Protocol (HSRP) |
| Configure Virtual Router Redundancy Protocol (VRRP) |
| Implement NAT |
| Configure and Verify Virtual Routing and Forwarding (VRF) |
| Configure and Verify a Generic Routing Encapsulation (GRE) Tunnel |
| Configure Static Virtual Tunnel Interface (VTI) Point-to-Point Tunnels |
| Configure Wireless Client Authentication in a Centralized Deployment |
| Troubleshoot Wireless Client Connectivity Issues |
| Configure Syslog |
| Configure and Verify Flexible NetFlow |
| Configuring Cisco IOS Embedded Event Manager (EEM) |
| Troubleshoot Connectivity and Analyse Traffic with Ping, Traceroute, and Debug |
| Configure and Verify Cisco IP SLAs |
| Configure Standard and Extended ACLs |
| Configure Control Plane Policing |
| Implement Local and Server-Based AAA |
| Writing and Troubleshooting Python Scripts |
| Explore JavaScript Object Notation (JSON) Objects and Scripts in Python |
| Use NETCONF Via SSH |
| Use RESTCONF with Cisco IOS XE Software |