

IMPLEMENTING AND OPERATING CISCO ENTERPRISE NETWORK CORE TECHNOLOGIES (ENCOR) V1.3

IMPLEMENTING AND OPERATING CISCO ENTERPRISE NETWORK CORE TECHNOLOGIES (ENCOR) V1.3

The Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) v1.3 training gives you the knowledge and skills needed to install, configure, operate, and troubleshoot an enterprise network and introduces you to overlay network design by using SD-Access and SD-WAN solutions. You'll also learn to understand and implement security principles and automation and programmability within an enterprise network.

How you'll benefit

This class will help you:

- Configure and implement identified solutions by applying planned implementation processes using Cisco IOS Software commands and applications.
- Verify appropriate **show** and **debug** commands and applications to ensure correct solution implementation and performance.
- Troubleshoot appropriate **show** and **debug** commands and applications to identify the cause of basic-level network issues and correctly implement a solution that ensures that the network is performing as desired.

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- Entry to Mid-level Network Engineers
- Network Administrators
- Network Support Technicians
- Help Desk Technicians

OUTLINE

- **Module 1: Examining Cisco Enterprise Network Architecture**
- **Module 2: Exploring Cisco Switching Paths**
- **Module 3: Implementing Campus LAN Connectivity**
- **Module 4: Building Redundant Switched Topology**
- **Module 5: Implementing Layer 2 Port Aggregation**

Course Duration

5 days

Course Price

\$4,295.00 or 43 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

- **Module 6: Understanding EIGRP**
- **Module 7: Implementing OSPF**
- **Module 8: Optimizing OSPF**
- **Module 9: Exploring EIGRP**
- **Module 10: Implementing Network Redundancy**
- **Module 11: Implementing NAT**
- **Module 12: Introducing Virtualization Protocols and Techniques**
- **Module 13: Understanding Virtual Private Networks and Interfaces**
- **Module 14: Understanding Wireless Principles**
- **Module 15: Examining Wireless Deployment Options**
- **Module 16: Understanding Wireless Roaming and Location Services**
- **Module 17: Examining Wireless AP Operation**
- **Module 18: Implementing Wireless Client Authentication**
- **Module 19: Troubleshooting Wireless Client Connectivity**
- **Module 20: Implementing Network Services**
- **Module 21: Using Network Analysis Tools**
- **Module 22: Implementing Infrastructure Security**
- **Module 23: Implementing Secure Access Control**
- **Module 24: Discovering the Basics of Python Programming**
- **Module 25: Discovering Network Programmability Protocols**
- **Module 26: Implementing Layer 2 Port Aggregation**
- **Module 27: Discovering Multicast Protocols**
- **Module 28: Understanding QoS**
- **Module 29: Exploring Enterprise Network Security Architecture**
- **Module 30: Exploring Automation and Assurance Using Cisco DNA Center**
- **Module 31: Examining the Cisco SD-Access Solution**
- **Module 32: Understanding the Working Principles of the Cisco SD-WAN Solution**

LAB OUTLINE

- **Lab 1: Investigate the CAM**
- **Lab 2: Analyze Cisco Express Forwarding**
- **Lab 3: Troubleshoot VLAN and Trunk Issues**
- **Lab 4: Tuning Spanning Tree Protocol (STP) and Configuring Rapid Spanning Tree Protocol (RSTP)**
- **Lab 5: Configure Multiple Spanning Tree Protocol**
- **Lab 6: Troubleshoot EtherChannel**
- **Lab 7: Implement Multi-area OSPF**
- **Lab 8: Implement OSPF Tuning**
- **Lab 9: Apply OSPF Optimization**
- **Lab 10: Implement OSPFv3**
- **Lab 11: Configure and Verify Single-Homed EBGP**
- **Lab 12: Implementing Hot Standby Routing Protocol (HSRP)**
- **Lab 13: Configure Virtual Router Redundancy Protocol (VRRP)**
- **Lab 14: Implement NAT**
- **Lab 15: Configure and Verify Virtual Routing and Forwarding (VRF)**
- **Lab 16: Configure and Verify a Generic Routing Encapsulation (GRE) Tunnel**
- **Lab 17: Configure Static Virtual Tunnel Interface (VTI) Point-to-Point Tunnels**
- **Lab 18: Configure Wireless Client Authentication in a Centralized Deployment**
- **Lab 19: Troubleshoot Wireless Client Connectivity Issues**
- **Lab 20: Configure Syslog**
- **Lab 21: Configure and Verify Flexible NetFlow**
- **Lab 22: Configuring Cisco IOS Embedded Event Manager (EEM)**
- **Lab 23: Troubleshoot Connectivity and Analyze Traffic with Ping, Traceroute, and Debug**
- **Lab 24: Configure and Verify Cisco IP SLAs**
- **Lab 25: Configure Standard and Extended ACLs**
- **Lab 26: Configure Control Plane Policing**
- **Lab 27: Implement Local and Server-Based AAA**
- **Lab 28: Writing and Troubleshooting Python Scripts**
- **Lab 29: Explore JavaScript Object Notation (JSON) Objects and Scripts in Python**

- **Lab 30: Use NETCONF Via SSH**
- **Lab 31: Use RESTCONF with Cisco IOS XE Software**