




<b>Course Title</b>	<b>CCNP Enterprise</b> CCNP Enterprise: Core Networking (ENCOR) CCNP Enterprise: Advanced Routing (ENARSI)	
<b>Lab Platform</b>	<ul style="list-style-type: none"><li>▪ Cisco Modeling Lab</li><li>▪ Cisco Packet Tracer</li><li>▪ NETLAB+</li></ul>	

**CCNP Enterprise: Core Networking (ENCOR)** provides students with a broad scope of architectural understanding and implementation skills required by enterprise networks. The course covers switching, routing, wireless, and related security topics along with the technologies that support software-defined, programmable networks.

This course directly prepares for the Cisco Enterprise Network Core Technologies exam (350-401 ENCOR) to earn an Enterprise Core Specialist certification.

**CCNP Enterprise: Advanced Routing (ENARSI)** provides students with an in-depth knowledge to support the implementation and troubleshooting of advanced routing technologies and services including layer 3 VPN services, infrastructure security and infrastructure services used in enterprise networks.

This course directly prepares for the Cisco Enterprise Advanced Routing and Services concentration exam (300-410) to earn the Enterprise Advanced Infrastructure Implementation Specialist certification.

Passing both 350-401 and 300-410 exam earns a CCNP Enterprise certification.

### **CCNP Enterprise: Core Networking (ENCOR)**

SL	Module	Topics
1	L2 Redundancy	Packet Forwarding
		Spanning Tree Protocol
		Advanced Spanning Tree
		Multiple Spanning Tree Protocol
		VLAN Trunks and EtherChannel Bundles
2	Routing Essentials and EIGRP	IP Routing Essentials
		EIGRP
3	OSPF	OSPF
		Advanced OSPF
		OSPFv3
4	BGP	BGP
		Advanced BGP
5	Multicast and QoS	Multicast
		QoS

6	IP Services and VPNs	IP Services
		Overlay Tunnels
		Multicast
7	Wireless Essentials	Wireless Signals and Modulation
		Wireless Architecture Infrastructure
		Understanding Wireless Roaming and Location Services
8	Wireless Security and Connectivity	Wireless Security
		Wireless Troubleshooting
9	Network Design and Monitoring	Enterprise Network Architecture
		Fabric SDN Technologies
		Network Assurance
10	Access Control and Infrastructure Security	Secure Access Control
		Network Device Access Control and Infrastructure Security
11	Virtualization, Automation, and Programmability	Virtualization
		Foundational Network Programmability Concepts
		Introduction to Automation Tools
12	Skill Exam and Final Exam	

### CCNP Enterprise: Advanced Routing (ENARSI)

SL	Module	Topics
1	Routing Concepts and EIGRP	IPv4 and IPv6 Addressing and Routing Review
		EIGRP
		Advanced EIGRP
		Troubleshooting EIGRP
		EIGRPv6
2	OSPF	OSPF
		Advanced OSPF Configuration
		Troubleshooting OSPFv2
		OSPFv3
		Troubleshooting OSPFv3 and Address Families
3	BGP	BGP
		Advanced BGP
		BGP Best Path Selection
		Troubleshooting BGP
4	Conditional Forwarding and Route Redistribution	Route Maps and Policy Based Routing
		Redistribution
		Troubleshooting Redistribution
5	VPNs	Dynamic Multipoint VPN
		Securing DMVPN Tunnels
6	Infrastructure Security and Management	Troubleshooting IPv4 and IPv6 ACLs and Prefix Lists
		Infrastructure Security
		Device Management and Management Tools
		Troubleshooting
7	Skill Exam and Final Exam	