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CISCO SYSTEMS

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500 EIGHTH Ave, Suite 1203, New York, NY. 10018

Labs Series for
Cisco®
CCIE Routing
and Switching

Course Length:	10 weeks (80 hours), Instructor-led
Skill Development:	Install, integrate, configure and troubleshoot setups layed out in typical Cisco® CCIE lab scenarios
Prerequisites:	CCNP or equivalent experience
Target Audience:	Experienced CCNP's (or equivalent)
Course Objective:	Provide students with the knowledge, skills and practical experience to pass the Cisco CCIE routing and switching practical lab exam
Exams covered:	Cisco CCIE routing and switching practical lab exam
Lab:	One-year onsite and remote access (via web) to Cisco CCIE racks(currently eight (8) CCIE racks are available)

Topics to be covered:

I. Bridging and Switching
Frame relay; Catalyst configuration: VLANs, VTP, STP, trunk, management, features, advanced configuration, Layer 3

II. IP IGP Routing
OSPF, EIGRP, RIPv2, IPv6, GRE, ODR; Filtering, redistribution, summarization and other advanced features

III. BGP
BGP, IBGP, EBGP, IPv6; Filtering, redistribution, summarization, synchronization, attributes and other advanced features

IV. IP and IOS Features
IP addressing , DHCP, HSRP, IP services, IOS user interfaces; System management; NAT NTP; SNMP; RMON; Accounting

V. IP Multicast
PIM, bi-directional PIM; MSDP; Multicast tools, source specific multicast; PGM; DVMRP; Anycast

VI. QoS
Quality of service solutions; Classification; Congestion management, congestion avoidance; Policing and shaping; Signaling; Link efficiency; mechanisms; Modular QoS command line

VII. Security
AAA; Security server protocols; Traffic filtering and firewalls; Access lists; Routing protocols ; security, catalyst security; Other security features

Open Lab Hours: Monday through Thurs, 10:00am to 9:30pm, Fri/Sat/Sun 9:30a to 5:30p

Reference Textbooks: CCIE Routing and Switching Practice Labs; Routing TCP/IP Volum II (all CiscoPress titles)
Cisco Press; Configuring Cisco Voice Over IP, Syngress (suggested textbooks; not included in the course)