

How You Benefit

- Drive business outcomes and innovation by enabling digitalready enterprise networks
- Scale expertise by building and validating Cisco Routing and Switching knowledge at all levels
- Solidify and expand your skills to support evolving network technologies
- Earn global recognition from an industry leader for your accomplishments

Demand for Trained and Experienced Routing and Switching Professionals

The digital transformation of business is driving adoption of programmable network architectures with a corresponding need for expanded skills and knowledge from network engineers. To meet these evolving job roles, Cisco continues to develop training and certification products that enable Enterprises to successfully innovate and migrate to a digital-ready network.

The program includes:

- Skills Building: Recommended tools to help you learn best practices and gain hands-on experience. From entry level to expert level, we offer instructor-led and self-paced training options with a hands-on focus for every learning style and budget.
- Skills Validation: Assess Cisco routing and switching knowledge and new skills
 proving to hiring managers that IT professionals are ready to design and deploy
 digital-ready network.
- **Skills Reinforcement:** Continually hone skills throughout your career as an Enterprise network engineer.

Gain Job-Ready Practical Skills

The CCENT, CCNA Routing and Switching, CCNP Routing and Switching, and CCIE Routing and Switching certification programs are practical, relevant, and job-ready certification curricula aligned closely with the specific tasks expected of these in demand professionals. Cisco realizes that the network professional increasingly must focus on design, configuration, and support responsibilities as the technical consultant, specialist or expert on a networking team. Therefore, the Cisco curriculum is specific to the best practices of network administrators, engineers, and experts using the latest Cisco network solutions.



Cisco Routing and Switching Certification Program

Learning@Cisco At-A-Glance

Curriculum Overview

ROUTING & SWITCHING: CCENT \lor CCNA \gt CCNP \gt CCIE \gt

Cisco Certified Entry Networking (CCENT) The CCENT certification validates the ability to install, operate and troubleshoot a small enterprise branch network, including basic network security.				
Pre-requisite(s)	No Prerequisites			
Topic Focus	 Network Fundamentals LAN Switching Fundamentals Routing Fundamentals Infrastructure Services Infrastructure Maintenance 			
Job Role(s)	Network Support Engineers			
Experience Level (Years)	0-2			
Required Exam(s)	100-105 ICND1			
Recommended Training	Interconnecting Cisco Networking Devices Part 1			

www.cisco.com/go/ccent

ROUTING & SWITCHING: CCENT > CCNA > CCNP > CCIE >

Cisco Certified Network Associate Routing and Switching (CCNA Routing and Switching) Beyond basic networking skills, the Cisco CCNA Routing and Switching curriculum will expose IT professionals to software driven networking principles, virtualized networking functions and resources, IPv6, VPN technologies, QoS and the power of next generation technologies.						
Pre-requisite(s)	No Prerequisites					
Topic Focus	Combination of both ICND1 and ICND2 Topics	 Network Fundamentals LAN Switching Fundamentals Routing Fundamentals Infrastructure Services Infrastructure Maintenance 	 LAN Switching Technologies Routing Technologies WAN Technologies Infrastructure Services Infrastructure Maintenance 			
Job Role(s)	Network Administrators, Network Specialist	Network Support Engineers	Network Administrators			
Experience Level (Years)	1 - 3					
Required Exam(s)	200-125 CCNAX	100-105 ICND1	200-105 ICND2			
Recommended Training	Interconnecting Cisco Networking Devices: Accelerated	Interconnecting Cisco Networking Devices Part 1	Interconnecting Cisco Networking Devices Part 2 (ICND2)			

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Cisco Routing and Switching Certification Program

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ROUTING & SWITCHING: CCENT > CCNA > CCNP \(\times \) CCIE \(\times \)

Cisco Certified Network Professional Routing and Switching (CCNP Routing and Switching) The CCNP Routing and Switching certification will distinguish network engineers who have the ability to plan, implement, verify and troubleshoot local and wide-area enterprise networks and work collaboratively with specialists on advanced security, voice, wireless and video solutions.						
Pre-requisite(s)	Valid CCNA Routing and Switching certification or any CCIE Certification can act as a prerequisite.					
Topic Focus	Implementing Secure Routers with Advanced IP Addressing	Planning, configuring, and verifying the implementation of complex switching solutions	 Maintenance of complex routed and switched networks Network troubleshooting using technology-based practices 			
Job Role(s)	System Engineers	Network Consultants	System Integrators			
Experience Level (Years)	3 - 6					
Required Exam(s)	300-101 ROUTE	300-115 SWITCH	300-135 TSHOOT			
Recommended Training	Implementing Cisco IP Routing	Implementing Cisco IP Switched Networks	Troubleshooting and Maintaining Cisco IP Networks			

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ROUTING & SWITCHING: CCENT > CCNA > CCNP > CCIE >

Cisco Certified Internetwork Expert Routing and Switching (CCIE Routing and Switching) Earn the highly regarded CCIE Routing and Switching certification and be among the elite and prove your ability to implement and troubleshoot complex networks improving uptime, increase user productivity and provide business agility.					
Pre-requisite(s)	No Prerequisites				
Topic Focus	 Configure, validate, and troubleshoot complex enterprise network infrastructure 	Understand how infrastructure components interoperate	Translate functional requirements into specific device configurations		
Job Role(s)	Senior Network Engineers				
Experience Level (Years)	7+				
Required Exam(s)	400-101 CCIE Routing and Switching Written Exam				
	CCIE Routing and Switching Lab Exam v5				
Recommended Training	Expert Level Training for CCIE Routing and Switching				

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