

# Implementing Cisco IP Routing (ROUTE) ? (642-902)

**Product Overview]** This course is part of the official Cisco CCNP® curriculum and covers the skills that are required for CCNP certification. Students will learn to plan, configure, and verify the implementation of complex enterprise LAN and WAN routing solutions, using a range of routing protocols. The course also covers configuration of secure routing solutions to support branch offices and mobile workers. Comprehensive labs emphasize hands-on learning and practice to reinforce configuration skills. The course is appropriate for enterprise network engineers with at least one year of job experience who are ready to advance their skills and work independently on complex network solutions. It is part of the official CCNP curriculum and covers the same skills that are validated in the CCNP certification exams.

**Features and Benefits]** Cisco authorized training is developed by subject matter experts around the globe to align to the job tasks of professional-level network engineers. Authorized CCNP curriculum is delivered by certified instructors using a blend of lecture, labs, self-paced lessons, and assessments.

**Key Features&#160;&#160;&#160; Key Benefits**

Customer-centered design	Input from customers and partners ensures relevancy.
Job role focus	Curriculum aligns to tasks of network engineers.
Blended learning curriculum	Mix of classroom and self-paced lessons offers flexibility.
Extensive lab exercises	Hands-on practice strengthens skills.
End-of-module assessments	Review reinforces learning objectives.
Worldwide availability&#160;	Consistent curriculum in all regions.
Authorized Cisco Learning Partners	Certified instructors deliver Cisco approved content.

**Course Prerequisites]** - Cisco CCNA® certified **CCNP Certification]** CCNP validates the knowledge and skills that are required to plan, implement, secure, maintain, and troubleshoot converged enterprise networks. The requirements for CCNP were designed to reflect the responsibilities that are associated with roles such as network engineer, system engineer, network support engineer, network administrator, network consultant, or system integrator.

**Product Specifications]** Course Name: Implementing Cisco IP Routing This course replaces Building Scalable Cisco Internetworks (BSCI).

Short Identifier: ROUTE Associated Certifications: CCNP, Cisco CCIP®, and Cisco CCDP®  
Associated Exam: #642-903 ROUTE, 120 minutes Available at all worldwide Pearson VUE testing centers

Duration: 5 days classroom or virtual classroom Delivered by: Cisco Certified Learning Partners worldwide  
Lab Exercises: 13 individual labs E-Learning: Self-paced lessons, demos, and assessments present core

learning objectives covered in the ROUTE certification exam. Check with your Cisco Learning Partner for more information on system requirements for e-learning modules.

Implementing Cisco IP Routing is one of three courses that are recommended for CCNP candidates, along with Implementing Cisco IP Switched Networks (SWITCH) and Troubleshooting and Maintaining Cisco IP Networks (TSHOOT).

<b>Course Outline]</b>	<b>Delivery Topic</b>	Classroom	Course Overview	Classroom
Planning Routing Services to Requirements	Classroom	Implementing an EIGRP-Based Solution		
Classroom	Implementing a Scalable, Multiarea Network OSPF-Based Solution	Classroom	Implementing an IPv4-Based Redistribution Solution	
Classroom	Implementing Path Control	E-Learning	Implementing Path Control (continued)	
Classroom	Connecting an Enterprise Network to ISP Networks	E-Learning	Implementing IPv6	
E-Learning	Implementing Routing Facilities for Branch Offices and Mobile Workers			