

## Troubleshooting and Maintaining Cisco IP Networks (TSHOOT) ? (642-832)

**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 monitor and maintain complex, enterprise routed and switched IP networks. Skills include the planning and execution of regular network maintenance, as well as support and troubleshooting using technology-based processes and best practices, in a systematic and ITIL-compliant approach. Extensive labs emphasize hands-on learning and practice to reinforce troubleshooting techniques. 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.

<b>Key Features</b>	<b>Key Benefits</b>	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
strengthens skills.	End-of-module assessments	Review reinforces learning objectives.	Hands-on practice
Key topics integrated in complex network scenario.	Worldwide availability	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:	Troubleshooting and Maintaining Cisco IP Networks
This course replaces	Implementing Secure Converged Wide Area Networks (ISCW) and Optimizing Converged Cisco Networks (ONT).
Short Identifier:	TSHOOT
Associated Certification:	CCNP
Associated Exam:	#642-832 TSHOOT, 120 minutes.
Available at all worldwide Pearson VUE testing centers	Duration: 5 days classroom or virtual classroom, plus 9.5 hours of e-learning
Delivered by:	Cisco Certified Learning Partners worldwide
Lab Exercises:	9 individual labs
E-Learning:	Self-paced lessons, demos, and assessments present core learning objectives covered in the TSHOOT certification exam.

Check with your Cisco Learning Partner for more information on system requirements for e-learning modules. Troubleshooting and Maintaining Cisco IP Networks is one of three courses that are recommended for CCNP candidates, along with Implementing Cisco IP Routing (ROUTE) and Implementing Cisco IP Switched Networks (SWITCH).

**Course Outline Delivery**

<b>Topic</b>	Classroom	Course Overview	Classroom	Planning Maintenance for Complex Networks
Classroom	Selecting Maintenance and Troubleshooting Tools and Applications	Classroom	Planning Troubleshooting Processes for Complex Enterprise Networks	Classroom
Switching-Based Solutions	E-Learning	Troubleshooting Performance Problems on Switches	E-Learning	Troubleshooting Wireless Connectivity
Troubleshooting Video	E-Learning	Troubleshooting VoIP	E-Learning	Troubleshooting Multicast
Troubleshooting Routing-Based Solutions	E-Learning	Troubleshooting NAT and PAT	Classroom	Maintaining and Troubleshooting Campus
Troubleshooting DHCP	E-Learning	Troubleshooting IPv6, OSPFv3, and RIPng	E-Learning	Maintaining and Troubleshooting Network Security Solutions
Maintaining and Troubleshooting Network Security Solutions	E-Learning	Maintaining and Troubleshooting Network Application Services	Classroom	Troubleshooting Branch Office and Remote Worker Problems
Maintaining and Troubleshooting Integrated, Complex Enterprise Network				