

Implementing Cisco Quality of Service (QoS)

Category: Networking & Security | **Vendor:** Cisco

Duration: 40.00 hours (5 days)

32.5 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

The Implementing Cisco Quality of Service (QoS) training provides you with in-depth knowledge of QoS requirements, conceptual models such as best effort, IntServ, and DiffServ, and the implementation of QoS on Cisco platforms. The training covers the theory of QoS, design issues, and configuration of various QoS mechanisms to facilitate the creation of effective administrative policies providing QoS.

The training also gives you design and usage rules for advanced QoS features. This gives you the opportunity to design and implement efficient, optimal, and trouble-free multiservice networks. The new version of the training also includes QoS for modern wireless networks and software-defined networks.

This training earns you 40 Continuing Education (CE) credits toward recertification.

How You'll Benefit

This training will help you:

- Gain the skills to identify, describe, and correctly implement the appropriate QoS mechanisms that are required to create an effective administrative policy providing QoS
- Get the knowledge for designs and usage rules for advanced QoS features
- Earn 40 CE credits toward recertification

About This Course

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Who Should Attend

- Pre- and post-sales technical engineers responsible for designing, implementing, or troubleshooting networks
- Network architects responsible for designing multiservice networks to carry voice, video, and data traffic in enterprise or service provider environments

Prerequisites & Entry Requirements

General Prerequisites:

The learner should possess the knowledge and skills associated with the Cisco Certified Networking Associate Implementing and Administering Cisco Solutions (CCNA).

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After completing this course the student should be able to:

- Explain the need for QoS, describe the fundamentals of QoS policy, and identify and describe the different models that are used for ensuring QoS in a network
- Explain the use of MQC and AutoQoS to implement QoS on the network and describe some of the mechanisms used to monitor QoS implementations
- Given a converged network and a policy defining QoS on the network and describe some of the mechanisms used to monitor QoS implementations
- Use Cisco QoS queuing mechanisms to manage network congestion
- Use Cisco QoS congestion avoidance mechanisms to reduce the effects of congestion on the network
- Describe how link efficiency mechanisms can be used collectively to improve bandwidth efficiency and reduce delay
- Describe the need for wireless QoS in WLANs due to the expansion of high-bandwidth data applications and time-sensitive multimedia applications in vertical and enterprise environments, and the need for a unified approach to support multi-vendor time-sensitive applications and accelerate the adoption rate of QoS
- Describe the need for QoS in modern Software-Defined Networks (SDN) for ensuring reliable performance of crucial applications and services
- Describe the steps and best practices for optimally deploying QoS and understand the network elements involved in an enterprise end-to-end QoS deployment, as well as the importance of QoS interaction between the enterprise and service provider networks

Detailed Course Outline

- Section 1: Introduction to QoS
- Section 2: Implement and Monitor QoS
- Section 3: Classification

- Section 4: Marking
- Section 5: Congestion Management
- Section 6: Congestion Avoidance
- Section 7: Traffic Policing and Shaping
- Section 8: Link Efficiency Mechanisms
- Section 9: Introducing QoS for Modern Wireless Networks
- Section 10: Introducing QoS for Software-Defined Networks
- Section 11: Deploying End-to-End QoS

Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Implementing Cisco Quality of Service (QOS)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: How many CPD hours does this course provide?

The 5-day Implementing Cisco Quality of Service (QOS) course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Implementing Cisco Quality of Service (QOS) training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Implementing Cisco Quality of Service (QOS)?

Yes, we provide corporate training, dedicated training, and closed classes for Implementing Cisco Quality of Service (QOS). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Implementing Cisco Quality of Service, Cisco Unified Communications, QOS

Q: Why choose Nexus Human for Implementing Cisco Quality of Service (QOS)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Implementing Cisco Quality of Service (QOS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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