

Cisco Quality Of Service Training (QoS)

Price: 4295

Duration: 5 days

Delivery Methods: Virtual

Overview

Implementing Cisco Quality of Service (QoS) v3.0 is a 5-day training program that provides learners 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 curriculum covers the theory of QoS, design issues, and configuration of various QoS mechanisms to facilitate the creation of effective administrative policies providing QoS.

Case studies and lab exercises included in the course help learners to apply the concepts from the individual modules to real-life scenarios. The course also gives learners design and usage rules for advanced QoS features. This gives the learners the opportunity to design and implement efficient, optimal, and trouble-free multiservice networks.

Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Interconnecting Cisco Networking Devices, Part 1 and 2 (ICND1 and ICND2)
- Cisco Certified Networking Associate

Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- You will be able to identify, describe, and correctly implement the appropriate QoS mechanisms required to create an effective administrative policy providing QoS.

Who Should Attend

The primary audience for this course are as follows:

- 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
- Advanced Unified Communications Specialization
- Master UC Specialization
- Master Telepresence ATP

Secondary audiences are:

- CCIE R&S Candidates

Course content

Module 1: Introduction to QoS

- Review Converged Networks
- Understand QoS
- Describe Best-Effort and Integrated Services Models
- Describe the Differentiated Services Model
- Module Summary
- Module Self-Check

Module 2: Implement and Monitor QoS

- MQC Introduction
- Monitor QoS
- Define Campus AutoQoS
- Define WAN AutoQoS
- Module Summary
- Module Self-Check

Module 3: Classification and Marking

- Classification and Marking Overview
- MQC for Classification and Marking
- NBAR for Classification
- Use of QoS Preclassify

- Campus Classification and Marking
- Module Summary
- Module Self-Check

Module 4: Congestion Management

- Queuing Introduction
- Configure WFQ
- Configure CBWFQ and LLQ
- Configure Campus Congestion Management
- Module Summary
- Module Self-Check

Module 5: Congestion Avoidance

- Congestion Avoidance Introduction
- Configure Class-Based WRED
- Configure ECN
- Describe Campus-Based Congestion Avoidance
- Module Summary
- Module Self-Check

Module 6: Traffic Policing and Shaping

- Traffic Policing and Shaping Overview
- Configure Class-Based Policing
- Campus Policing
- Configure Class-Based Shaping
- Configure Class-Based Shaping on Frame Relay Interfaces
- Configure Frame Relay Voice-Adaptive Traffic Shaping and Fragmentation
- Module Summary
- Module Self-Check

Module 7: Link Efficiency Mechanisms

- Link Efficiency Mechanisms Overview
- Configure Class-Based Header Compression
- Configure LFI
- Module Summary

- Module Self-Check

Module 8: Deploying End-to-End QoS

- Apply Best Practices for QoS Policy Design
- End-to-End QoS Deployments
- Module Self-Check

Course Schedule

Date	Time	Price	Options
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FAQ

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Ten (10) business days' notice is required to reschedule a class with no additional fees. Notify TOPTALENT LEARNING as soon as possible at 469-721-6100 or by written notification to info@toptalentlearning.com to avoid rescheduling penalties.

How do I enroll for this class?

Please contact our team at 469-721-6100; we will gladly guide you through the online purchasing process.

What happens once I purchase a class?

You will receive a receipt and an enrollment confirmation sent to the email you submitted at purchase. Your enrollment email will have instructions on how to access the class. Any additional questions our team is here to support you. Please call us at 469-721-6100.

What is your late policy?

If a student is 15 minutes late, they risk losing their seat to a standby student. If a student is 30 minutes late or more, they will need to reschedule. A no-show fee will apply. Retakes are enrolled on a stand-by basis. The student must supply previously issued courseware. Additional fees may apply.

What happens when I finish my class?

You will receive a 'Certificate of Completion' once you complete the class. If you purchased an exam voucher for the class, a team member from TOPTALENT LEARNING will reach out to discuss your readiness for the voucher and make arrangements to send it.