



Lumify Work QOS Implementing Cisco Quality of Service Installation Guide

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IT INFRASTRUCTURE AND NETWORKS
**Implementing Cisco Quality of
Service (QOS)**

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QOS Implementing Cisco Quality of Service

LENGTH	PRICE (Incl. GST)	VERSION
5 days	\$6,050	3

Lumify Work is the largest provider of authorised Cisco training in Australia, offering a wider range of Cisco courses, run more often than any of our competitors. Lumify Work has won awards such as ANZ Learning Partner of the Year (twice!) and APJC Top Quality Learning Partner of the Year.

WHY STUDY THIS COURSE

The Implementing Cisco Quality of Service (QoS) training course 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.

Digital courseware: Cisco provides students with electronic courseware for this course. Students who have a confirmed booking will be sent an email prior to the course start date, with a link to create an account via learning.space.cisco.com before they attend their first day of class. Please note that any electronic courseware or labs will not be available (visible) until the first day of the class.

Exam Vouchers: Cisco exam vouchers are not included in the course fees but can be purchased separately where applicable.

WHAT YOU'LL LEARN

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

- 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



My instructor was great being able to put scenarios into real world instances that related to my specific situation. I was made to feel welcome from the moment I arrived and the ability to sit as a group outside the classroom to discuss our situations and our goals was extremely valuable.

I learnt a lot and felt it was important that my goals by attending this course were met.
Great job Lumify Work team.

AMANDA NICOL IT SUPPORT SERVICES MANAGER – HEALTH WORLD LIMITED

Lumify Work

Customised Training

We can also deliver and customise this training course for larger groups saving your organisation time, money and resources.

For more information, please contact us on 1 800 853 276.

COURSE SUBJECTS

- Introduction to QoS
- Implement and Monitor QoS
- Classification
- Marking
- Congestion Management
- Congestion Avoidance
- Traffic Policing and Shaping
- Link Efficiency Mechanisms
- Introducing QoS for Modern Wireless Networks
- Introducing QoS for Software-Defined Networks
- Deploying End-to-End QoS

Lab outline

- QoS Mechanisms
- IP SLA Setup and QoS Baseline Measurement
- Configuring QoS with Cisco AutoQoS
- Classification and Marking
- Classification and Marking Using MQC
- Using NBAR for Classification
- Configuring QoS Preclassify
- Campus Classification and Marking Using MQC
- Configuring Fair Queuing
- Configuring LLQ-CBWFQ
- Configuring Campus-Based Queuing Mechanisms
- WRED Traffic Profiles
- Configuring DSCP-Based WRED
- Configuring WTD Thresholds
- Configuring Class-Based Policing
- Configuring Class-Based Shaping
- Configuring Class-Based Header Compression
- Configuring LFI

WHO IS THE COURSE FOR?

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

PREREQUISITES

Before taking this offering, you should have:

- [Cisco Certified Networking Associate](#) v2.0 certification

The supply of this course by Lumify Work is governed by the booking terms and conditions. Please read the terms and conditions carefully before enrolling in this course, as enrolment in the course is conditional on acceptance of these terms and conditions.

<https://www.lumifywork.com/en-au/courses/implementing-cisco-quality-of-service-qos/>

Call 1800 853 276 and speak to a Lumify Work Consultant today!



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Documents / Resources

	<p>Lumify Work QOS Implementing Cisco Quality of Service [pdf] Installation Guide QOS Implementing Cisco Quality of Service, QOS, Implementing Cisco Quality of Service, Cisco Quality of Service, Quality of Service</p>
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References

-  [Cisco Learning Network Space](#)
-  [Lumify Work | Lumify Work AU](#)

-  [Cisco Learning Network Space](#)
-  [Lumify Work | Lumify Work AU](#)
-  [Cisco Certified Network Associate \(CCNA\) | Lumify Work AU](#)
-  [Implementing Cisco Quality of Service \(QOS\) | Lumify Work AU](#)
- [User Manual](#)