

## QOS

# Implementing Cisco Quality of Service

40 horas

Profissional

Cisco

Cisco Continuing Education Credits

**40 CE Credits**

## INTRODUÇÃO

The Implementing Cisco Quality of Service (QoS) training provides in-depth knowledge of QoS requirements, conceptual models (best effort, IntServ, DiffServ), and the implementation of QoS on Cisco platforms, including QoS for wireless and SD-WAN.

## OBJETIVO DO CURSO

Explain the need for QoS and describe QoS policy fundamentals and models

Explain the use of MQC and AutoQoS to implement QoS

Describe mechanisms used to monitor QoS implementations

Use Cisco QoS queuing mechanisms to manage network congestion

Use Cisco QoS congestion avoidance mechanisms

Describe link efficiency mechanisms for bandwidth efficiency

Describe the need for wireless QoS in WLANs

Describe the need for QoS in modern Software-Defined Networks

Describe best practices for end-to-end QoS deployment

## PÚBLICO-ALVO

Pre- and post-sales technical engineers, Network architects responsible for designing multiservice networks

## PRÉ-REQUISITOS

Recommended: Cisco Certified Networking Associate (CCNA) v2.0 certification.

## Course Outline

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

## Lab Outline

- QoS Mechanisms Case Study
- IP SLA Setup and QoS Baseline Measurement
- Configuring QoS with Cisco AutoQoS
- 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
- Configuring DSCP-Based WRED
- Configuring WTD Thresholds
- Configuring Class-Based Policing
- Configuring Class-Based Shaping
- Configuring LFI