

Implementing Cisco QoS v2.3

QoS



Delivery Type: Classroom

Duration: 5 days

Overview

This course is designed to provide students with in-depth knowledge of IP QoS requirements, conceptual models using Differentiated Services (Diffserv), Integrated Services (IntServ) and Best Effort (over provisioning), and the implementation of IP QoS on Cisco IOS switch and router platforms. Case studies and lab exercises included in the course help students to apply the concepts mastered in individual modules to real-life scenarios.

Target Audience

This course is aimed at network designers and engineers responsible for implementation and management of IP QoS and students seeking Cisco CCIP & CCVP Certification.

Pre-Requisites

Delegates are required to meet the following prerequisites:

- ✓ Delegates are required to hold a valid CCNA to attend this course
- ✓ Attendance of the BGP is also recommended before delegates attend this course.

Certification

- ✓ **Recommended preparation for exam(s):**
- ✓ 642-642 QOS - Implementing Cisco QOS

Objectives

At the end of the course delegates will be able to:

- ✓ Explain the need to implement QoS and explain methods for implementing and managing QoS
- ✓ Identify and describe different models used for ensuring QoS in a network and explain key IP QoS mechanisms used to implement these models
- ✓ Explain the use of MQC and AutoQoS to implement QoS on the network.
- ✓ Classify and Mark network traffic in order to implement a defined QoS Policy
- ✓ Use Cisco queuing mechanisms to manage network congestion
- ✓ Use Cisco QoS congestion avoidance mechanisms to reduce the effects of congestion on the network.

- ✓ Use Cisco QoS traffic policing and traffic shaping mechanisms to effectively limit the rate of network traffic.

Follow on Courses

The following courses are recommended for further study:

- ✓ MPLS – Implementing Cisco MPLS
- ✓ CVOICE - Cisco Voice over IP
- ✓ CIPT1 - Cisco IP Telephony Part 1
- ✓ CIPT2 - Cisco IP Telephony Part 2
- ✓ TUC - Troubleshooting Unified Comms
- ✓ GWGK - Implementing Cisco Voice Gateways and Gatekeepers
- ✓ QoS is part of the Cisco Professional Level IP and Voice Certifications as well as the Cisco Qualified Specialist Voice Specialisations.