



Course Title: Implementing Cisco Quality of Service (QoS)
Duration: 5 days

Certification

This course forms a part of the CCVP and completes course material for exam **642-642 QOS**

Objectives

After completing this course the delegate will be able to:

- Explain the need to implement Quality of Service (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 the models
- Explain the use of MQC and AutoQoS to implement QoS on the network
- Use Cisco QoS 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
- Successfully use Cisco link efficiency mechanisms to improve the bandwidth efficiency of the link
- Correctly select the most appropriate QoS mechanisms for providing QoS using Cisco best practices

Pre-Requisites

- Cisco Certified Networking Associate (CCNA)

Content

The Implementing Cisco Quality of Service (QoS) v2.2 course provides delegates 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.

- Introduction to IP QoS
- The Building Blocks of IP QoS
- Introduction to Modular QoS CLI and AutoQoS
- Classification and Marking
- Congestion Management
- Congestion Avoidance
- Traffic Policing and Shaping
- Link Efficiency Mechanisms
- QoS Best Practices