

## Course Outline

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### Implementing Cisco Quality of Service (QoS) v2.2

**Duration:** 5 days (30 hours)

#### Learning Objectives:

After completing this course the student should be able to:

- Identify the components of the Cisco Unity system, describe their standard and optional features, and explain and how they integrate into a unified messaging system
- 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

#### Target Audience:

- Channel Partner / Reseller
- Customer

#### Prerequisites:

Completion of Interconnecting Cisco Networking Devices (ICND) or Cisco Certified Networking Associate (CCNA). The Configuring BGP on Cisco Routers course (BGP) or equivalent is recommended because some BGP background is assumed for the QoS course.

#### Topics Covered:

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

