

## CCNP ONT(642-845) Quick Learning

The following Quick Learning Modules are focused on a specific lesson or topic from the current ONT curriculum. This content is only accessible by Registered Users. If you have not yet registered, you will be prompted to register, before proceeding to access this content.

**Class-Based Weighted Fair Queuing (CBWFQ) and Low Latency Queuing (LLQ)**] Upon completing this lesson, you should be able to do the following:

- Describe Advanced Queuing Mechanisms
- Describe the Features, the Architecture and the Benefits of CBWFQ
- Describe how to Configure and Monitor CBWFQ
- Describe the Features, the Architecture and the Benefits of LLQ
- Describe how to Configure and Monitor LLQ

Watch Now **Introducing QoS**] Upon completing this lesson, you should be able to do the following:

- Describe the four key quality issues with converged networks
- Explain how a lack of bandwidth can adversely impact QoS in a network and ways to effectively increase bandwidth on a link
- Explain how end-to-end delay can adversely impact QoS in a Network and ways to effectively reduce delay
- Explain how packet loss can adversely impact QoS in a network and ways to manage packet loss so that QoS is not affected
- Define QoS with respect to traffic in a Network

Watch Now **Introducing 802.1x**] Upon completing this lesson, you should be able to do the following:

- Explain the need for WLAN security standards and why WLAN security is so important
- Describe the difference between authentication and encryption
- Describe how enhanced 802.11 security improves on basic 802.11 security
- Describe the basic concepts of 802.1x authentication

Watch Now **Introducing Traffic Policing and Shaping**] Upon completing this lesson, you should be able to do the following:

- Describe Traffic Policing and Shaping Overview
- Describe the difference between Traffic Policing and Traffic Shaping
- Explain Measuring Traffic Rates using a Token Bucket
- Explain Single Token Bucket Class-Based Policing

Watch Now **SDM QoS Wizard**] Upon completing this lesson, you should be able to do the following:

- Explain the Cisco SDM QoS wizard, including how to access it and the high-level configuration that it can do.

Watch Now