

Implementing Cisco Voice Communications and QoS v8.0

CVOICEV8



Delivery Type: Classroom

Duration: 5 days

Overview

This course will provide delegates with knowledge of voice gateways, the characteristics of VoIP call legs, dial plans and their implementation, plus the basic implementation of IP phones in a Cisco Unified Communications Manager Express environment, as well as essential information about gatekeepers and Cisco Unified Border Element. Voice-related QoS mechanisms required in a Cisco Unified Communications network are also incorporated into this class.

Pre-Requisites

Attendees should meet some prerequisites:

- ✓ Working knowledge of fundamental terms and concepts of computer networking to include LANs, WANs, and IP switching and routing
- ✓ Ability to configure and operate Cisco IOS routers in an IP environment at CCNA Level ICND1 and ICND2 or CCNABC is Recommended
- ✓ Basic knowledge of traditional voice, converged voice, and data networks at the CCNA Voice Level ICOMM is Recommended

Target Audience

The primary audience for this course is Network Administrators, Network Engineers and CCNP Voice candidates

Objectives

After completing this program, you will be able to:

- ✓ Explain what a voice gateway is, how it works, and describe its usage, components, and features
- ✓ Describe the characteristics and configuration elements of VoIP call legs
- ✓ Describe how to implement IP phones using Cisco Unified Communications Manager Express
- ✓ Describe the components of a dial plan and explain how to implement a dial plan on a Cisco Unified voice gateway
- ✓ Explain what gatekeepers and Cisco Unified Border Elements are, how they work, and what features they support
- ✓ Describe why QoS is needed, what functions it performs, and how it can be implemented in a Cisco Unified Communications network

Certification

Recommended preparation for exam(s):

- ✓ 642-437- Implementing Cisco Voice Communications and QoS
- ✓ CVOICE is one of five courses required for the Cisco Certified Network Professional for Voice Career Certification

Follow on Courses

The following courses are recommended for further study:

- ✓ CIPT1V8 – Implementing Cisco Unified Communications Manager Part 1
- ✓ CIPT2V8 – Implementing Cisco Unified Communications Manager Part 2
- ✓ CAPP5 – Integrating Cisco Unified Communications Applications
- ✓ TVOICE - Troubleshooting Cisco Unified Communications

Further Information

Recertification:

Cisco professional level certifications (CCNP, CCNP SP Operations, CCNP Wireless, CCDP, CCNP Security, CCNP Voice, and CCIP) are valid for three years. To recertify, pass any 642 exam that is part of the professional level curriculum or pass any CCIE/CCDE written exam before the certification expiration date.

Achieving or recertifying any of the certifications above automatically extends your active Associate and Professional level certification(s) up to the point of expiration of the last certification achieved. For more information, access the [Cisco About Recertification page](#)