



Enhanced Network Solutions Group

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CVOICE Implementing Cisco Voice Communications and QoS

CVOICE Rev 05.11

5 days

Description

Implementing Cisco Voice Communications and QoS (CVOICE) v8.0 teaches learners about voice gateways, characteristics of VoIP call legs, dial plans and their implementation, basic implementation of IP phones in a Cisco Unified Communications Manager Express environment, and essential information about gatekeepers and Cisco Unified Border Element. The course provides the learners with voice-related QoS mechanisms that are required in Cisco Unified Communications networks.

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 routers in an IP environment at the CCNA level*
- *Basic knowledge of traditional voice, converged voice, and data networks at the CCNA Voice level*

Course Objectives

After completing this course, the learner will be able to meet these overall objectives:

- *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*

Course Outline

Module 1: Course Introduction

Module 2: Introduction to Voice Gateways

Module 3: VoIP Call Legs

Module 4: Cisco Unified Communications Manager Express Endpoints Implementation

Module 5: Dial Plan Implementation

Module 6: Gatekeeper and Cisco Unified Border Element Implementation

Module 7: Quality of Service



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