

CCNP Voice Eğitimi İçeriği

Öngereksinimler: CCNA Voice

<http://www.cliguru.com/CCNA-Voice>

Kurs Tanımı:

Giriş seviyesi network bilgileri ve voice temellerine sahip katılımcıları sektörün en güncel konularından VoIP konusunda profesyonel seviyeye çıkartmayı amaçlamaktadır.

CVOICE v8.0 – Implementing Cisco Unified Communications Voice over IP and QoS Version v8.0 (642-437)

- Introduction to Voice Gateways
- VoIP Call Legs
- Cisco Unified Communications Manager Express Endpoints Implementation
- Dial Plan Implementation
- Gatekeeper and Cisco Unified Border Element Implementation
- Quality of Service

CIPT1 v8.0 – Implementing Cisco Unified Communications IP Telephony Part 1 v8.0

- Cisco Unified Communications Manager (CUCM)
- CUCM Administration
- Single-Site On-Net Calling
- Single-Site Off-Net Calling
- Implementing Media Resources, Features, and Applications
- Features and Applications for Multisite Deployments

CIPT2 v8.0 – Implementing Cisco Unified Communications IP Telephony Part 2 v8.0

- Multisite Deployments
- Centralized Call Processing Redundancy
- Bandwidth Management and Call Admission Control
- Features and Applications for Multisite Deployments
- IP Telephony Security

TVOICE v8.0 – Troubleshooting Cisco Unified Communication v8.0

- UC Troubleshooting
- CUCM Troubleshooting
- Troubleshooting Call Setup Issues
- Troubleshooting SAF and CCD Issues
- Troubleshooting CUCM Features and Application Issues
- Troubleshooting Voice Quality and Media Resources Issues

CAPPS v8.0 – Integrating Cisco Unified Communications Applications v8.0

- Introduction to Voice Mail
- Cisco Unity Connection in a CUCM Environment
- Cisco Unity Express Implementation in CUCM Express Environment
- Voice Profile for Internet Mail Implementation (VPIM)
- Cisco Unified Presence Implementation

CVOICE

Implementing Cisco Voice Communications and QoS 8.0 (CVOICE)

1. Introduction to Voice Gateways

- Cisco UC Networks and the Role of Gateways
- Gateway Call Routing and Call Legs
- DSP Functionality, Codecs, and Codec Complexity
- Gateway Voice Ports Configuration

2. VoIP Call Legs

- VoIP Call Leg Characteristics
- VoIP Media Transmission
- H.323 Signaling Protocol
- SIP Signaling Protocol
- MGCP Signaling Protocol
- Requirements for VoIP Call Legs
- VoIP Call Legs Configuration

3. Communications Manager Express Endpoints Implementation

- Endpoint Requirements
- Endpoint Configuration

4. Dial Plan Implementation

- Call Routing and Dial Plans
- Digit Manipulation
- Path Selection Configuration
- Calling Privileges Configuration

5. Gatekeeper and CUBE Implementation

- Fundamentals of Gatekeepers
- Cisco Unified Border Element

6. QoS

- QoS Mechanisms and Models
- Classification, Marking, and Link Efficiency Mechanisms
- Managing Congestion and Rate Limiting
- Cisco AutoQoS

CIPT1

Implementing Cisco Unified Communications IP Telephony Part 1 v8.0 (CIPT1)

1. Cisco Unified Communications Manager (CUCM)

- Architecture
- Deployment and Redundancy Options

2. CUCM Administration

- Managing Services and Initial Configuration
- Managing User Accounts

3. Single-Site On-Net Calling

- Endpoints in CUCM
- Implementing IP Phones

4. Single-Site Off-Net Calling

- PSTN Gateways in CUCM
- CUCM Call Routing Components
- CUCM Digit Manipulation
- Calling Privileges and Restrictions
- Gateway Selection and PSTN Access Features
- Call Coverage

5. Implementing Media Resources, Features, and Applications

- Configuring CUCM IP Phone Services
- Presence-Enabled Speed Dials and Lists

6. Features and Applications for Multisite Deployments

- Cisco Unified Mobility

CIPT2

Implementing Cisco Unified Communications IP Telephony Part 2 v8.0 (CIPT1)

1. Multisite Deployments

- Identifying Issues
- Multisite Deployment Solutions
- Multisite Connections
- Multisite Deployment Dial Plan

2. Centralized Call Processing Redundancy

- Remote-Site Redundancy Options
- Cisco Unified SRST and MGCP Fallback
- CUCM Express in SRST Mode

3. Bandwidth Management and Call Admission Control

4. Features and Applications for Multisite Deployments

- Device Mobility
- Extension Mobility

5. IP Telephony Security

- Service Advertisement Framework

TVOICE

Troubleshooting Cisco Unified Communication v8.0 (TVOICE)

1. UC Troubleshooting

- Identifying UC Deployments
- Troubleshooting Methodology
- Troubleshooting and Monitoring Tools

2. CUCM Troubleshooting

- Common Gateway and Endpoint Registration Issues
- CUCM Availability Issues
- Database Replication Issues
- LDAP Integration Issues

3. Troubleshooting Call Setup Issues

- Examining Call Setup Issues and Causes
- On-Premises Single-Site Calling Issues
- On-Net Multisite Calling Issues
- Off-Net Calling Issues

4. Troubleshooting SAF and CCD Issues

5. Troubleshooting CUCM Features and Application Issues

- Device Mobility Issues
- Extension Mobility Issues
- Unified Mobility Issues
- CUCM Native Presence Issues

6. Troubleshooting Voice Quality and Media Resources Issues

- MOH Issues
- MTP Issues
- Issues with Conferences
- Transcoder Issues
- Issues with RSVP Agents
- Voice Quality Issues

CAPPS

Integrating Cisco Unified Communications Applications v8.0.0 (CAPPS)

1. Introduction to Voice Mail

- General Requirements for Voice Mail Integration

2. Cisco Unity Connection in a CUCM Environment

- Integration with CUCM
- Configuring Unity Connection
- Using Partitions and Search Spaces
- Implementing Call Management
- Configuring Users
- Monitoring and Troubleshooting

3. Cisco Unity Express Implementation in CUCM Express Environment

- Basics of Unity Express
- Integration with CUCM Express
- Configuring Unity Express
- Configuring User Accounts
- AutoAttendant
- Troubleshooting

4. Voice Profile for Internet Mail Implementation (VPIM)

- Implementing VPIM in Unity Connection
- Implementing VPIM in Unity Express

5. Cisco Unified Presence Implementation

- Components and Communication Flows
- Integrating Unified Presence
- Configuring Features
- Implementing Unified Personal Communicator
- Verifying and Troubleshooting Tools