

## **ACUCW2 - Administering Cisco Unified Communications Workspaces Part 2 (v12.5): Advanced Administration for Multisite Deployments**

### **What You'll Learn in Class?**

In this class you will learn the advanced administrative concepts needed to understand Cisco Collaboration Solution configuration:

- Learn about the Cisco Collaboration Solutions 12.5 Preferred Architecture
- Perform initial system configuration including service activation, enterprise and system parameter configuration,
- CallManager group and device pools configuration
- Build a line/device multi-site dial plan using local route groups
- Deploy calling privileges using partitions, calling search spaces and translation patterns
- Understand the NANP (North American Numbering Plan) and its implications for multisite deployments
- Deploy CUCM mobility features: extension mobility, device mobility, and unified mobility (single number reach)
- Configure Instant Messaging and the Presence Server
- Configure Jabber Clients for full UC services

### **Prerequisites**

For this advanced administrative course, you should have experience performing basic CUCM administrative tasks, including IP Phone moves, adds and changes and as well have some familiarity with the CUCM Administrative GUI.

ACUCW1 can help you achieve the prerequisites.

### **Outline**

- 1. Cisco Unified Communications Manager Architecture and Initial Configuration**
  - Describing the Role of Cisco Unified Communications Manager, Its Architecture and Its Deployment and Redundancy Options
  - Performing Initial Cisco Unified Communications Manager Configuration

- Deploying Endpoints and Users
- 2. Multisite CUCM Dial Plan Design and Deployment**
  - Describing Dial Plan Components
  - Understanding Call Flows and Call Legs
  - Endpoint Addressing and Call Routing Overview
  - Implementing Calling Privileges
  - Identifying Issues in a Multisite Deployment
  - Identifying Multisite Deployment Solutions
  - Implementing Gateway Selection and PSTN-Access Features
  - Implementing Call Coverage
- 3. Bandwidth Management and Call Admission Control**
  - Managing Bandwidth
  - Implementing Call Admission Control
- 4. Implementation of Features and Applications for Multisite Deployments**
  - Implementing Device Mobility
  - Implementing Cisco Extension Mobility
  - Implementing Cisco Unified Mobility
- 5. Module 5: Cisco Unified Communications Manager IM&P**
  - Understanding Cisco Unified Communications Manager IM and Presence
  - Enabling Cisco Unified Communications Manager IM and Presence Service
- 6. Module 6: Cisco IP Phone Services**
  - Deploying IP Phone Services

## **Labs**

- Lab 1: Remote Lab Access
- Lab 2: Initial System Configuration
- Lab 3: NTP and Date/Time Group Configuration
- Lab 4: Device Pool Configuration
- Lab 5: BUF850 SIP Trunk Configuration and Testing
- Lab 6: Route Group Configuration
- Lab 7: Route List Configuration

- Lab 8: Route Pattern Configuration and Testing
- Lab 9: Calling Privileges Configuration Testing
- Lab 10: Deploy NYC516 Site
- Lab 11: Deploy SEA253 Site
- Lab 12: Deploy SEA425 Site
- Lab 13: Deploy HAM601 Site
- Lab 14: Deploy WPG602 Site
- Lab 15: Jabber Configuration in Phone Mode
- Lab 16: Region Configuration
- Lab 17: Locations Configuration
- Lab 18: Device Mobility
- Lab 19: Extension Mobility
- Lab 20: Unified Mobility
- Lab 21: Enable IM and Presence
- Lab 22: LDAP Configuration
- Lab 23: Disaster Recovery
- Lab 24: Call Hunting