# IUWMS: Implementing Cisco Unified Wireless Mobility Services v2.0

Course ID#: 1575-970-ZZ-W

Hours:  35

# Course Content

**Course Description:**

Implementing Cisco Unified Wireless Mobility Services (IUWMS) v2.0 is an instructor-led course presented by Cisco training partners to their end-user customers. This five-day course is designed to help students prepare for the CCNP-Wireless certification, a professional level certification specializing in the wireless field.

The IUWMS course is a component of the CCNP-Wireless curriculum. The IUWMS course is designed to provide professionals with information to prepare them to integrate mobility services into the network; tune and troubleshoot the WLAN and implement indoor enterprise mesh networks. Our IUWMS course will prepare you for Cisco Exam 642-747 to earn your CCNP Wireless certification.  After completing this course, the student will be able to design the WLAN infrastructure for Location Services, design Network for High Availability and also:

- Implement Cisco Location Based Services
- Configure WCS for controller and access point templates
- Implement and Manage an Enterprise Mesh Network
- Describe Outdoor Wireless Installations
- Perform a layer two survey for 802.11n (Greenfield Survey) devices only
- Perform a wireless site assessment and audit once the WALN has been installed
- Complete a site survey report

**Target Student:**
- Wireless Network Engineer
- Mid-level Wireless Support Engineer
- Wireless Test Engineer
- Wireless Network Designer

**Prerequisites:**
- Cisco Certified Networking Associate – CCNA
- Cisco Certified Networking Associate Wireless– CCNA Wireless

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## Topics:

**Module 1: Design WLAN Infrastructure for Mobility**
- Utilizing Recommended Design Practices
- Implications of Layer 2 and Layer 3 Roaming
- Designing for High Availability
- Single SSID Designs with Mobility

**Module 2: Implement and Manage Advanced Services with WCS and WCS Navigator**
- Configuring WCS Controller and Access Point Templates
- Configuring WCS for WLC Auto-Provisioning
- Implementing WCS Partitioning
- Scheduling Wireless Access Using WCS
- Configuring Reports
- Configuring Administrative Tasks
- Connecting and Troubleshooting Clients
- Roles, Features, and Functions of WCS Navigator

**Module 3: Design the Wireless Network for Location**
- Location Techniques
- Deployment Requirements
- Applications of RFID, Chokepoint, and TDoA

**Module 4: Cisco Location-Based Services Implementation**
- Mobility Services Architecture and Appliances
- Configuring the Cisco 2700 Series Wireless Location Appliance and the Cisco 3300 Series Mobility Service Engine
- Integrating and Managing the MSE and the Location Appliance with WCS
- Configuring and Tuning Location with WCS and MSE / Location Appliance
- Tracking Mobile Clients

- Configuring, Generating, Interpreting Location and Event Notifications
- Integrating Third-Party Applications
- Location Appliance and MSE Maintenance
- Troubleshooting Location

**Module 5: Implement and Manage an Indoor Enterprise Mesh**
- Indoor Enterprise Mesh
- Mesh Formation
- Implementing an Enterprise Mesh
- Configuring Enterprise Mesh Advanced Features
- Configuring WCS for an Indoor Mesh
- Troubleshooting Indoor Mesh

**Module 6: Implement and Manage an Outdoor Enterprise Mesh**
- Outdoor Wireless
- Mobile Routing
- Wireless Bridging
- Outdoor Mesh

**Labs**
- Implementing Cisco Unified Wireless Mobility Services
- Configuring Mobility Groups and Domains
- Configuring High Availability
- Configuring AP groups
- Configuring a single SSID for multiple WLANs
- Troubleshooting Controller communications
- Configuring WCS Controller and Access Point Templates
- Implementing WCS partitioning
- Scheduling Wireless Access
- Managing a WGB from WCS
- Monitoring and Converting and Autonomous Access Point from WCS

- Preparing WCS for Location
- Integrating and Managing the MSE
- Configuring Mesh Access Points
- WCS Mesh support: maps and mesh general features