

## CI – IUWMS

### Implementing Cisco Unified Wireless Mobility Services

#### Summary

##### Duration

5 Days

##### Vendor

Cisco

##### Category

Wireless / CCNPW



#### Introduction

The goal of the 5-day IUWMS course is 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.

#### Prerequisites

CCNA Wireless (ICND1, ICND2 & IUWNE)

#### Course Objectives

After completing this course the student should be able to:

- Design a WLAN infrastructure for mobility
- Implement advanced services and manage with the WCS and WCS Navigator
- Implement Cisco's Location-based Services
- Implement the Mobility Services Engine into the wireless network
- Describe the outdoor wireless networks and products
- Implement and manage an indoor enterprise mesh
- Optimize and troubleshoot the WLAN

#### Course Outline

Design WLAN Infrastructure for Mobility

- Understanding and Utilizing Design Recommended Practices
- Understanding Implications of Layer 2 and Layer 3 Roaming
- Designing for High Availability
- Understanding Single SSID Designs with Mobility

Implement Advanced Services and Manage 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
- Monitoring and Troubleshooting Clients
- Monitoring and Converting Autonomous APs using WCS
- Understanding the Roles, Features, and Functions of Cisco WCS Navigator

#### Implement Cisco 2700 Series Appliance Location-Based Services

- Understanding Deployment Requirements
- Understanding Applications of RFID, Chokepoint and TDoA
- Configuring and Tuning the 2700 Series Location Appliance
- Tracking Mobile Clients
- Calibrating RSSI for the Cisco and AeroScout Implementation
- Configuring, Generating, Interpreting Location and Event Notifications
- Describing Location Appliance Maintenance
- Troubleshooting Location-based Services

#### Implement MSE Architecture

- Describing Mobility Services Architecture
- Loading MSE Application
- Integrating and Managing the MSE with WCS
- Integrating Third-Party Applications
- Troubleshooting MSE

#### Describe Outdoor Wireless

- Describing Outdoor Mesh
- Describing Wireless Bridging
- Describing Mobile Routing

#### Advanced Tuning and Troubleshooting

- Troubleshooting the Access Point Join Process
- Troubleshooting Inter-Controller Communications
- Tuning the RF Environment
- Adjusting Authentication and EAP Timers

### **Associated Certifications & Exams**

The 642-746 Implementing Cisco Unified Wireless Mobility Services (IUWMS) is the exam associated with the Cisco Certified Network Professional (CCNP) Wireless certification.

On successful completion of this course students will receive a Torque IT attendance certificate.