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## Implementing Cisco Unified Wireless Voice Networks

**Duration: 5 Days**    **Course Code: IUWVN**

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### Overview:

The Implementing Cisco Unified Wireless Voice Networks (IUWVN) course gives learners a firm understanding of how to integrate voice over wireless LAN (VoWLAN) services into the wireless LAN (WLAN) and be able to implement VoWLAN, quality of service (QoS), and high-bandwidth applications into the wireless network

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### Target Audience:

This course is designed for: Network engineers, network administrators, network managers, system engineers, WLAN designers, project managers Individual wishing to attain the CCNP Wireless certification.

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### Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
  - Implement QoS for wireless applications using the best-practices guidelines
  - Describe evolution of voice from traditional through VoIP architecture and finally into VoWLAN
  - Implement a VoWLAN network infrastructure
  - Implement multicast in a wireless network
  - Configure the wireless infrastructure for video and high-bandwidth applications
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### Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Wireless standards
- Wireless regulator environment
- Wireless certification organization
- Basic computer literacy, including the use of general office software such as Microsoft Word and Microsoft Excel
- Basic Windows navigation and keyboard literacy skills
- Basic Internet usage skills
- Basic e-mail usage skills

To gain the prerequisite skills and knowledge, Cisco strongly recommends the knowledge of the following courses:

- Interconnecting Cisco Networking Devices Part 1 (ICND1)
  - Interconnecting Cisco Networking Devices Part 2 (ICND2)
  - Implementing Cisco Unified Wireless Networking Essentials (IUWNE)
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### Testing and Certification

Recommended as preparation for:

- 642-741 - Implementing Cisco Unified Wireless Voice Networks (Last day to test 11th May 2012)
  - 642-742 - Implementing Cisco Unified Wireless Voice Networks
- IUWVN is one of four courses required for **Cisco Certified Network Professional Wireless (CCNP) Wireless** Certification
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### Follow-on-Courses:

- Conducting Cisco Unified Wireless Site Survey (CUWSS)
- Implementing Advanced Cisco Unified Wireless Security (IAUWS)
- Implementing Cisco Unified Wireless Mobility Services (IUWMS)

All the above courses are part of the **Cisco Certified Network Professional Wireless (CCNP) Wireless** Certification

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## Content:

### Implementation of QoS for Wireless Applications

- Identifying General Considerations for Wired and Wireless QoS
- Describing Wireless QoS Deployment Schemes
- Configuring the Controller, Cisco WCS, and IOS AP for QoS
- Configuring the Wired Infrastructure for QoS
- Analyzing CAPWAP Traffic

### Voice over Wireless Architecture

- Describing the Voice Architecture
- Describing VoWLAN Call Flow
- Designing Wireless for Voice
- Verifying Voice Readiness

### Implementation of VoWLAN

- Describing Hardware and Software Requirements for VoIP
- Configuring a WLAN for Voice
- Configuring Infrastructure Devices for End-to-End Voice over Wireless
- Configuring Wireless Client Devices
- Troubleshooting VoWLAN

### Implementation of Multicast over Wireless

- Describing General Multicast Concepts
- Describing Implications for Multicast in 802.11
- Configuring Multicast in a Wireless Network
- Troubleshooting Multicast in a Wireless Network

### Preparation of the Wireless Network for Video and High-Bandwidth Applications

- Implementing QoS for Latency-Sensitive Applications
- Determining Bandwidth Requirements and Preparing the Controller for Video
- Describing the Benefits of 802.11n for Video

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## Further Information:

For More information, or to book your course, please call us on +254 713 027 191

[training@clclearningafrica.com](mailto:training@clclearningafrica.com)

[www.clclearningafrica.com](http://www.clclearningafrica.com)

Computer Learning Centre 2nd Floor Museum Hill Centre, Muthithi Road, Westlands, Nairobi, Kenya