

# IUWVN

## Implementing Cisco Unified Wireless Voice Networks



In this course, students learn to integrate VoWLAN services into the WLAN with a focus on Quality of service. In hands-on labs, QoS will be configured on a controller, and end-to-end QoS on a router. Participants will capture and analyze QoS parameters as well as manage the WLAN from the WCS and verify the network infrastructure. Wireless security, the creation of a video WLAN and multicasting are also topics of this course. This course prepares for the exam 642-741, which is part of the CCNP Wireless Certification.

### Course Contents

- General considerations for wired and wireless QoS
- Configure the WLC and WCS for QoS
- Configure the wired infrastructure for QoS
- Voice over Wireless LAN Architecture
- Evolution of voice architecture
- VoWLAN call flow
- WLAN design for voice
- Verification of voice readiness
- Hardware and software requirements for VoIP
- WLAN configuration for voice
- Infrastructure and WLAN phone configuration
- Troubleshoot VoWLANs
- Implications of multicast for wireless networks
- Configuration and troubleshooting of multicast in wireless networks
- Prepare the Wireless Network for Video and High Bandwidth Applications
- Implement QoS for latency-sensitive applications
- Calculate bandwidth requirements and configure the wireless network for video applications

### Knowledge Prerequisites

Students need a working knowledge of Cisco IOS and WLAN. Those wishing to achieve the CCNP Wireless certification need a valid CCNA Wireless certification.



### Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On [www.expertech-training.com](http://www.expertech-training.com) under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +49 6074 4868-0.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



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5 days €2,590 exclusive of V.A.T.

### Course date (mm/dd/yy)/Location

02/20-02/24/12	Hamburg	08/27-08/31/12	Hamburg
02/27-03/01/12	Breda	10/15-10/19/12	Frankfurt
04/16-04/20/12	Frankfurt	11/19-11/23/12	Düsseldorf
05/21-05/25/12	Düsseldorf	01/14-01/18/13	Wien
07/09-07/13/12	München	01/14-01/18/13	München
07/09-07/13/12	Wien		

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- 1. Implementation of QoS for Wireless Applications**
  - 1.1. Identifying General Considerations for Wired and Wireless QoS
  - 1.2. Describing Wireless QoS Deployment Schemes
  - 1.3. Configuring the Controller and Cisco WCS for QoS
  - 1.4. Configuring the Controller and Cisco WCS for QoS
  - 1.5. Understanding Current Best Practice Guidelines
- 2. Voice over Wireless Architecture**
  - 2.1. Describing the evolution of Voice Architecture
  - 2.2. Describing VoWLAN Call Flow
  - 2.3. Designing Wireless for Voice
  - 2.4. Verifying Voice Readiness
- 3. Implementation of VoWLAN**
  - 3.1. Describing Hardware and Software Requirements for VoIP
  - 3.2. Configuring a WLAN for Voice
  - 3.3. Configuring Infrastructure Devices for End-to-End Voice over Wireless
  - 3.4. Configuring Wireless Client Devices
  - 3.5. Troubleshooting VoWLAN
- 4. Implementation of Multicast over Wireless**
  - 4.1. Understanding General Multicast Concepts
  - 4.2. Describing Implications for Multicast in 802.11
  - 4.3. Configuring Multicast in a Wireless Network
  - 4.4. Troubleshooting Multicast in a Wireless Network
- 5. Preparation of the Wireless Network for Video and High-Bandwidth Applications**
  - 5.1. Implementing QoS for Latency-Sensitive Applications
  - 5.2. Determining Bandwidth Requirements and Preparing the Controller for Video
  - 5.3. Describing the Benefits of 802.11n for Video



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