

Implementing Cisco Unified Wireless Voice Networks

Duration: 5 Days Course Code: IUWVN

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

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.

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

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)

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

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

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

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com.eg

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo