
Implementing Unified Wireless Networking Essentials V 2.0

Duration: 5 Days **Course Code: IUWNE**

Overview:

The Implementing Cisco Unified Wireless Networking Essentials (IUWNE) course is designed to help students prepare for the CCNA wireless certification, an associate-level certification specializing in the wireless field. The goal of the course is to provide students with information and practice activities to prepare them to help design, install, configure, monitor, and conduct basic troubleshooting tasks for a Cisco wireless LAN (WLAN) in small and medium-size business (SMB) and enterprise installations. This course provides entry-level information, and it does not specialize in any of the advanced features of the Cisco WLAN network solutions.

Target Audience:

This course is designed for: Individuals who are involved in the technical management of Cisco Unified Wireless platforms and solutions, which involves installing, configuring, operating, and troubleshooting.

Objectives:

- Upon completing this course, you will be able to meet these objectives:
 - Describe the fundamentals of wireless networks
 - Install a Cisco Unified Wireless Network
 - Describe and configure a basic wireless client using either the default operating system or Cisco Wireless LAN (WLAN) adapter configuration utilities
 - Configure wireless security
 - Manage the wireless network with Cisco WCS
 - Maintain and troubleshoot a wireless network
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Prerequisites:

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

- 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 email usage skills
- CCENT, CCNA Routing and Switching or any Cisco CCIE Certification

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

- Interconnecting Cisco Networking Devices Part 1 (ICND1)
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Testing and Certification

Recommended as preparation for:

- 640-722 - Implementing Cisco Unified Wireless Networking Essentials

IUWNE is the course required for **Cisco Certified Network Associate (CCNA) Wireless Certification**

Follow-on-Courses:

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

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

Content:

Wireless Fundamentals

- Describing Wireless Networks and Topologies
- Describing WLAN RF Principles
- Describing RF Mathematics
- Describing Antennas
- Describing Spread Spectrum Technologies
- Describing Wireless Regulation Bodies, Standards, and Certifications
- Examining Wireless Media Access
- Examining Non-802.11 Wireless Technologies and Their Impact on WLANs
- Reviewing the Wireless Frame Journey: End to End
- Identifying Design and Site-Survey Considerations

Basic Cisco WLAN Installation

- Understanding Cisco Unified Wireless Network Basic Architecture
- Configuring a Controller
- Discovering and Associating with a Controller
- Describing Access Point Operational Modes
- Roaming
- Managing the Network from the Controller
- Configuring and Migrating Standalone Access Points

Wireless Clients

- Using Default Configuration Tools
- Configuring the Cisco AnyConnect Secure Mobility Client
- Understanding the Cisco Compatible Extensions Program

WLAN Security

- Describing WLAN Security Components
- Establishing IEEE 802.11 Security
- Centralizing WLAN Authentication
- Describing EAP Authentications
- Managing Authentication and Encryption Through WPA and WPA2
- Configuring Wireless Security on Controllers and Clients

Cisco WCS Basics

- Introducing Cisco WCS and Cisco WCS Navigator
- Navigating the Cisco WCS Interface
- Working with Controllers from Cisco WCS
- Working with Preconfigured Maps
- Monitoring the Network with Cisco WCS
- Working with Cisco CleanAir in Cisco WCS

WLAN Maintenance and Troubleshooting

- Maintaining the System
- Troubleshooting a Wireless Network

Further Information:

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

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