**Implementing & Troubleshooting Unified Wireless Network**



**Implementing & Troubleshooting Unified Wireless Network**

**Course Objective**

* 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

**Target Audience**

* Finance professionals
* Budgeting and planning managers
* Commercial managers
* Divisional managers
* Purchasing and supply chain managersProject managers

**Course Outline**

**Day 1**

* WIRELESS FUNDAMENTALS
* Describing Wireless Networks and Topologies
* Describing WLAN RF Principles
* Describing RF Mathematics
* Describing Antennas
* Describing Spread Spectrum Technologies

**Day 2**

* 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

**Day 3**

* 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

**Day 4**

* 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

**Day 5**

* 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
* 6 - WLAN MAINTENANCE AND TROUBLESHOOTING
* Maintaining the System
* Troubleshooting a Wireless Network
* **The Feature Of Asia Master Training And Development Center**
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