



Class Outline

Certified Wireless Design Professional (CWDP)



Objectives

- Understand Design Strategies
- Describe Best Practices for Network Design
- Explain Advanced Site Surveying
- Describe Deployment Options
- Understand Design Validation and Optimization Methodologies

Prerequisite Knowledge Advisory

- Thorough Understanding of RF Technologies
- Understanding of Applications of 802.11 Networks
- *Current* Certified Wireless Network Administrator (CWNA) Certification

Exam

- CWDP-303
- Proctor: PearsonVUE
- Renewal: 3 years

Class Outline

Module 1 – Introduction to WLAN Design

- Implement Effective Project Management
 - Statement of Work
 - Nondisclosure Agreements
 - Project Plans
 - Resource Management
 - Role Definition

Module 2 – Defining Specifications for the WLAN

- Collect and Use Business Requirements
- Collect, Define, and Use Technical Requirements
- Identify Design Constraints
- Collect, Use, and Deliver Essential Documents, where Applicable

Module 3 – Defining Requirement Areas

- Define Requirement Areas Including Essential Metrics for Each Requirement
 - Capacity
 - Client Device Types
 - Applications and their Requirements
 - SSID and WLAN Profiles
 - Security Settings
 - Understand the Various Issues Introduced by Common Vertical Markets

Module 4 – Site Surveys

- Select and Use Appropriate Tools for a Design Project
- Perform a Pre-Design Site Survey, When Required

Module 5 – Designing the WLAN

- Define WLAN Architectures, and Select the Appropriate Architecture for a Design
- Use WLAN Design Software (including Common Vendor Solution Features)
- Make Configuration Recommendations in a Design Scenario
- Design for Different Client and Application Types
- Ensure Proper End-to-End QoS Implementation
- Define and Recommend Proper Security Solutions
- Design for Secure Roaming
- Create, Distribute, and Communicate Design Documentation

Module 6 – Designing for Specific Scenarios

- Understand the Various Issues Introduced by Common Vertical Markets
- Design Special WLAN Deployments

Module 7 – WLAN Deployment

- Understand and Implement Design Documentation
- Perform Validation and Optimization Tasks During Deployment
- Recommend or Perform Essential Deployment Tasks

Module 8 – Design Validation

- Perform and RF Validation Survey
 - Ensure Coverage Requirements
 - Ensure Capacity Requirements
 - Evaluate CCI Impact

- Perform Client Performance Testing
 - Application Testing
 - Roaming Testing
 - Connectivity Testing

Module 9 – Design Optimization

- Recommend and Perform Appropriate Physical Adjustments
- Recommend and Perform Appropriate Configuration Adjustments
- Select Remediation Solutions for Problems Discovered During Post-Validation
- Implement Knowledge Transfer and Handoff

