![interface logo - We teach. You do.]

Wireless Training

CWDP: Certified Wireless Design Professional

$2,695.00

- 3 Days

Upcoming Dates

Course Description

Do you have the skills to design an Enterprise network? Do you understand the architectures and protocols of a WLAN? Can you conduct a thorough site survey, design end-to-end security, and validate your designed network? Well, now is your chance to prove it, and in turn, earn a Certified Wireless Design Professional (CWDP) certification.

The CWDP is highly respected within the IT industry and CWDP-certified candidates hold a significant advantage in terms of career and salary advancement.

Measure your skills and knowledge with this professional-level certification and get on track toward ultimately earning your Certified Wireless Network Expert (CWNE) certification. Those that pass the CWDP exam earn credit towards a CWNE certification.

Course Outline

Module 1 – Introducing WLAN Design

- Wireless LAN (WLAN) Design
- Importance of Design
- Design Processes

Module 2 – Requirements Analysis

- Understanding WLAN Requirements
- Documentation and Procedures
- Understanding Client Device Population
- Discover Planned WLAN Applications
- Defining WLAN Security Requirements
- Physical Coverage Requirements for Various Vertical Markets
- Outdoor WLAN Bridge Link Requirements
- Existing WLAN Upgrade Path
- WLAN Test Considerations
- Design Documentation for WLANs

Module 3 – Site Survey Procedures

- Understanding the WLAN Site Survey

- WLAN Site Survey Types
- Spectrum Analysis for WLAN Site Survey
- WLAN Site Survey Tools
- Understanding Metrics and the Gathered RF Information
- Scenario-specific Requirements
- Understanding the Different Site Survey Methodologies Used
- Outdoor Site Survey Procedures

Module 4 – Enterprise WLAN Design

- RF Planning and Management
- Interference Considerations
- WLAN Channel Planning and RF Considerations
- Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC)
- Access Point Selection and Operation Modes
- Antenna Considerations
- Power over Ethernet (PoE) Design Concepts
- WLAN Security Design Considerations

Module 5 – Advanced WLAN Design

- Branch and Remote Office WLAN Design
- WLAN Design and Mesh Connectivity
- WLAN Quality of Service (QoS)
- Performance and Optimization for WLANs
- WLAN Security Considerations
- WLAN Deployment Scenarios
- Identify Various WLAN Requirements
- Planning and Testing Tools

Module 6 – WLAN Deployment

- WLAN Infrastructure Device Configuration and Deployment
- Configuration of Networking Services – DHCP and DNS
- Autonomous, Controller, and Cloud WLAN

Module 7 – Design Validation

- Post Deployment Survey
- WLAN Design Validation
- Post Deployment Analysis
- Tools Used for Post Deployment
- Post WLAN Deployment Troubleshooting

Audience

Prerequisites

Certified Wireless Network Administrator

What You Will Learn

- Understand Design Strategies
- Describe Best Practices for Network Planning
- Explain the Available Technologies to Satisfy 802.11n and 802.11ac Design Requirements
- Describe Advanced Site Surveying
- Understand Design Troubleshooting Methodologies