Certified Wireless Design Professional (CWDP)

COURSE OVERVIEW

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.

PREREQUISITES

Certified Wireless Network Administrator

COURSE OBJECTIVES

- 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

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

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Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their technology Investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team
- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience
- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience
- You have the option to attend classes live with the instructor, at any of our established training facilities, or from the convenience of your home or office
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

Outstanding Customer Service
- You will work with a dedicated account manager to suggest the optimal learning path for you and/or your team
- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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