

Training: CWNP
CWDP Enterprise Wi-Fi Network Design

FORM OF TRAINING	MATERIALS	PRICE	DURATION
Traditional	Hardcopy	1300 EUR	4 days
Traditional	CTAB Tablet	1400 EUR	4 days
Distance learning	Hardcopy	1300 EUR	4 days
Distance learning	CTAB Tablet	1300 EUR	4 days

TRAINING TERMS

2019-09-30 | 4 days | Warszawa

TRAINING GOALS:

The **CWDP Wireless LAN Design** course consists of instructor-led training applicable to the design of wireless LANs using the latest technologies including 802.11n and 802.11ac. The course goes in-depth into the design process and provides attendees with the knowledge needed to plan, deploy and test modern 802.11-based networks. It also prepares students for the **CWDP examination**.

Students who complete the course will acquire the necessary skills for preparing, planning performing and documenting site surveys and wireless LAN design procedures.

CONSPECT:

- WLAN Design Overview
 - Importance of good design
 - Impact of bad design
 - Design process
 - Design skills
 - Design toolkit
 - Pre-planning
 - Customer interaction
 - Requirements gathering
 - Discovering existing systems
 - Documenting the environment
 - Defining constraints

- Creating documentation
- Client device types
- Application types
- Application-specific design
- High density design issues
- Standard corporate networks
- Industry-specific designs
 - Government
 - Healthcare
 - Hospitality
 - Education
 - Retail
 - Public hotspots
 - Transportation
 - Mobile offices
 - Outdoor and mesh
 - Remote networks and branch offices
 - Last-mile/ISP and bridging
 - Defining vendor issues
 - Operational planes
 - Design models
 - Understanding architecture differences
 - RF spectrum
 - RF behaviors
 - Modulation and coding schemes
 - RF accessories
 - Throughput factors
 - Antennas
 - 802.11n and antennas
 - Choosing APs
 - Powering APs
 - Site survey tools
 - Site survey preparation
 - Predictive site surveys
 - Manual site surveys
 - Site survey principles and processes

- Quality of Service (QoS) overview
 - QoS application points
 - Roaming support
 - Bad security
 - Authentication solutions
 - Encryption solutions
 - Security best practices
 - Intrusion prevention
 - Network health status
 - Troubleshooting and validation process
 - Troubleshooting and validation tools
 - Common problems
- Requirements Analysis
 - Designing for Clients and Applications
 - Designing for Industry
 - Vendor Selection Processes
 - Radio Frequency Planning
 - WLAN Hardware Selection
 - Site Surveys
 - Designing for QoS
 - Designing for Security
 - Installation Testing, Validation and Troubleshooting
 - Design Troubleshooting

Case studies may be used in groups to explore concepts learned in the lecture materials. Potential case studies include:

- Designing for future capacity
- Designing in a moderate interference environment
- Designing multiple SSID networks

Trainers may include hands-on lab time using any or all of the following tools:

- Spectrum analyzer
- Protocol analyzer
- Site survey software
- Diagramming software
- Various wireless adapters and antennas

- Various wireless APs

REQUIREMENTS:

Required **CWNA**-level knowledge (enterprise Wi-Fi).

Suggested **CWSP** and **CWAP**-level knowledge.

Difficulty level



CERTIFICATE:

This course helps prepare for CWDP exam CWDP-302 available at VUE test centers

(www.vue.com/cwnp).

The **CWDP® (Certified Wireless Design Professional) certification** will advance your career by ensuring you have the skills to successfully design enterprise Wi-Fi networks for a variety of different applications, deployments, and environments, no matter which brand of Wi-Fi gear your organization deploys.

TRAINER:

Authorized CWNP Trainer.