Systems & Network Training

Certified Wireless Design Professional

A 3 day Hands on training course

Save on expenses. This course is also available on your premises.

Description

The CWDP 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.

Key outcomes

By the end of the course delegates will be able to:

- ✔ Design enterprise WiFi networks.
- ✔ Select appropriate antennas and Access points.
- ✔ Perform site surveys.
- ✔ Describe the security requirements required for enterprise networks.
- ✔ Test, validate and troubleshoot installations.

Training Approach

This structured course uses Instructor Led Training to provide the best possible learning experience. Small class sizes ensure students benefit from our engaging and interactive style of teaching with delegates encouraged to ask questions throughout the course. Quizzes follow each major section allowing checking of learning. Hands on sessions are used throughout to allow delegates to consolidate their new skills.

Details

Who will benefit?
Anyone looking for the skills to analyze, troubleshoot, and optimize any enterprise level Wi-Fi network, no matter which brand of equipment your organization deploys. Anyone looking to become a CWNP.

Prerequisites
CWNA

Duration: 3 days

Overall rating: ★★★★★

Generic Training	Small Class Sizes	Hands On Training	Our Courseware	Customise Your Course
Generic training compliments product specific courses covering the complete picture of all relevant devices including the protocols “on the wire”.	We limit our maximum class size to 8 delegates; often we have less than this. This ensures optimal interactivity between delegates and instructor.	The majority of our courses use hands on sessions to reinforce the theory.	We write our own courses; courseware does not just consist of slides and our slides are diagrams not bullet point text.	Please contact us if you would like a course to be customised to meet your specific requirements. Have the course your way.
“*Friendly environment with expert teaching that teaches the why before the how.”* G.C. Fasthosts	*“Excellent course. The small class size was a great benefit...”* M.B. IBM	*“Not many courses have practice added to it. Normally just the theoretical stuff is covered.”* J.W. Vodafone	*“Comprehensive materials that made the course easy to follow and will be used as a reference point.”* V.B. Rockwell Collins	*“I was very impressed by the combination of practical and theory. Very informative. Friendly approachable environment, lots of hands on.”* S.R. Qinetiq

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Course Content

WLAN design overview
Importance of good design, Impact of bad design, Design process, Design skills, Design toolkit.

Requirements analysis
Pre-planning, Customer interaction, Requirements gathering, Discovering existing systems, Documenting the environment, Defining constraints, Creating documentation.

Designing for clients and applications
Client Device types, Application types, Application-specific design, High density design issues.

Designing for industry
Standard corporate networks, Industry-specific designs, Government, Healthcare, Hospitality, Retail, Public hotspots, Transportation, Mobile offices, Outdoor and mesh, Remote networks and branch offices, Last-miles / ISP and bridging.

Vendor selection processes
Defining vendor issues, Operational planes, Design models, Understanding architectures.

Radio Frequency (RF) planning
RF spectrum, RF behaviors, Modulation and coding schemes, RF accessories, Throughput factors.

WLAN hardware selection
Antennas, 802.11n and antennas, Choosing Aps, Powering Aps.

Site surveys
Site survey tools, Site survey preparation, Predictive site surveys, Manual site surveys, Site survey principles and processes.

Designing for Quality of Service (QoS)
QoS overview, QoS application points, Roaming support.

Designing for security
Bad security, Authentication solutions, Encryption solutions, Security best practices, Intrusion prevention.

Installation testing, validation and troubleshooting
Network health status, Troubleshooting and validation process, Troubleshooting and validation tools, Common problems.

Hands-on lab exercises
Hands-on labs depend on the audience and can include use of: Spectrum analyzers, Protocol analyzers, Site Survey software, Diagramming software, Various wireless access points, Various wireless adapters and antennas.