nwexam
#1 Networking Certification Guide

CWNP CWDP-304

CWNP Wi-Fi Design Certification Questions & Answers

Exam Summary – Syllabus – Questions

CWDP-304
CWNP Certified Wireless Design Professional
60 Questions Exam – 70% Cut Score – Duration of 90 minutes

Table of Contents:

Know Your CWDP-304 Certification Well:

The CWDP-304 is best suitable for candidates who want to gain knowledge in the CWNP Wireless Network. Before you start your CWDP-304 preparation you may struggle to get all the crucial Wi-Fi Design materials like CWDP-304 syllabus, sample questions, study guide.

But don't worry the CWDP-304 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-
- What is in the CWDP-304 syllabus?
- How many questions are there in the CWDP-304 exam?
- Which Practice test would help me to pass the CWDP-304 exam at the first attempt?

Passing the CWDP-304 exam makes you CWNP Certified Wireless Design Professional. Having the Wi-Fi Design certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

CWNP CWDP-304 Wi-Fi Design Certification Details:

Exam Name	Wireless Design Professional
Exam Code	CWDP-304
Exam Price	$325 USD
Duration	90 minutes
Number of Questions	60
Passing Score	70%
Recommended Training	**CWDP self-paced training kit**, **Live Wi-Fi Design Training Class**
Exam Registration	**PEARSON VUE**
Sample Questions	**CWNP CWDP-304 Sample Questions**
Practice Exam	**CWNP Certified Wireless Design Professional Practice Test**

CWDP-304 Syllabus:

Section	Objectives
Define Specifications for the WLAN - 25%	
Collect business requirements and constraints	- Business use cases and justification - User requirements - Regulatory compliance - Industry compliance - Budget - Aesthetics - Architectural constraints - Mounting restrictions - Access restrictions - Time constraints - Building codes and safety codes
Collect and define technical requirements	- Vendor selection - Location services such as RTLS - Latency requirements - Signal strength requirements - Capacity requirements - Security requirements • BYOD and guest access • Roaming • Monitoring • Authentication and encryption - Applications and their specific requirements - WLAN upgrade requirements, when applicable - Bridge link requirements, when applicable - Voice over WLAN (VoWLAN), when applicable - Client devices including most important and least capable device - Requirement areas
Collect project documentation	- Validated floor plans - Network infrastructure • Network diagrams • AP locations

Section	Objectives
	• Existing network services including DNS, DHCP, NTP, and authentication servers • Switch capabilities and capacity - Cabling infrastructure • Cabling maps and plans • Wiring closet locations - Power availability and PoE capabilities - Existing wireless systems - Previous design/survey documentation
Define requirement areas including essential metrics for each requirement	- Client device types and capabilities - Applications and their requirements - User and device density - SSIDs - Security settings - Understand common vertical markets
Gather information on environmental factors	- Building materials - Attenuation values - Ceiling heights - Site annotations (photos, notes, plans) - Wireless environment scan • Packet captures • Spectrum captures • Wi-Fi scanners
Design the WLAN - 40%	
Define WLAN architectures and select the appropriate architecture for a design	- Controller-based (physical and virtual) architectures - Distributed (cloud-based and local WNMS) - Standalone/Autonomous APs - Dynamic vs. static channel assignment - Dynamic radio management - Software defined radios - RF profiles - Select and/or recommend the appropriate equipment for the design and selected architecture (APs, antennas, controllers, managed services)

Section	Objectives
Produce a design to meet requirements	- Select and use the appropriate design tools • Design and survey software and hardware • Spectrum analysis software and hardware • Access points and antennas • Portable power source • Tripods • Measuring tools • Cameras • Personal Protective Equipment (PPE) - Select and use the appropriate design methodologies • WLAN predictive design (new builds/site or area not accessible) • Validated RF modeling • AP-on-a-Stick (APoS) measurements • Bridge and mesh planning - Understand and use the common features of wireless design software • Import and scale floor plans • Model attenuation of the site (including calibration) • Select and place APs and antennas • Adjust AP and antenna settings • Define requirement areas and parameters • Define channel and power settings - Select and use common vendor features and make configuration recommendations • Band steering • Automatic/static channel selection • Load balancing • RF/AP templates - Design for different client and application types • VoIP handsets

Section	Objectives
	• Laptops • Handheld scanners • Smartphones and tablets • IoT and smart devices • Location tracking systems • Voice and video systems - Ensure end-to-end QoS is properly implemented • WMM • Wired and wireless QoS mappings • QoS markings, classifications, and queues - Define and recommend security solutions • Monitoring (detection and prevention) • Authentication servers • EAP methods • Authentication types • Encryption types - Design for secure roaming • Secure BSS transition (roaming) • Vendor roaming solutions • Client support issues
Create, distributed, and communicate design documentation	- Bill of Materials (BoM) - Design reports - Physical installation guide
Deploy the WLAN - 10%	
Ensure proper understanding and implementation of the design	- Implementation meeting • Explain design decisions to implementers • Ensure understanding of design deployment - Distribute required documentation
Recommend or perform essential deployment tasks	- Understand and perform installation procedures for different WLAN architectures (cloud-based, controller-based, WNMS, autonomous)

Section	Objectives
	- Infrastructure configuration supporting the WLAN (DHCP, DNS, NTP, switches, and routers) - Channel assignment, automatic radio management, and transmit power configuration - Installation procedures for cloud-based APs, controller-based APs, WNMS APs, and autonomous APs
Perform an installation audit for quality assurance	- Verify proper AP and antenna location and orientation - Verify aesthetic requirements are met - Verify physical security of the installation
Validate and Optimize the WLAN - 25%	
Confirm the WLAN system is operational	- AP Status - Verify PoE provisioning of power requirements are met
Perform an RF validation survey	- Ensure coverage requirements - Evaluate impacts of contention and interference
Perform client performance testing	- Connectivity testing - Application testing - Roaming testing - Capacity testing - Security testing
Recommend appropriate physical adjustments	- AP - Antenna and connectors
Recommend appropriate RF adjustments	- RF channel assignment - RF channel bandwidth - RF coverage (transmit power, radio count, antennas) - RF interference issues
Recommend remediation for application issues	- Connectivity issues - Application issues - Roaming issues - Capacity issues - Security issues
Implement knowledge transfer and hand-off	- System training - Solution documentation and assets • Validation documentation • Digital or physical assets

Section	Objectives
	- Guides - Floorplans - Configuration documents - Final meeting (Q&A and hand-off)

CWNP CWDP-304 Sample Questions:

Question: 1

During your first pre-deployment meeting with the deployment team, you hand out the full design documentation to all of them. What's your primary goal during this meeting?

a) To explain how Wi-Fi works.
b) To explain design decisions and ensure understanding of design documents.
c) To discuss AP functionality.
d) To justify the budget.

Answer: b

Question: 2

When designing a static channel plan for an office using voice devices near an airport, which range of channels should be avoided to ensure optimal performance when implemented?

a) 1-11
b) 36-40
c) 116-124
d) 44-48

Answer: c

Question: 3

What kind of site survey helps you identify if roaming is working as designed?

a) Passive
b) Predictive
c) Active
d) Spectrum analysis walkthrough

Answer: a

Question: 4

Who should be in the final meeting from the customer-side after successfully implementing a WLAN infrastructure?

    a) Remote workers
    b) CEO or CFO
    c) The customer's customers
    d) End-users

Answer: d

Question: 5

Using a SCA means that all APs will be using the same channel in a given layer. How is the AP with which the client associates determined?

    a) The client selects the AP based on a known set of MAC to BSSID mappings stored in the clients authorized SSID listing.
    b) All APs share a virtual IP address. A controller will tell the closest AP to the client to communicate with it, since it has a greater RSSI from the client.
    c) All APs share a virtual BSSID. A controller will tell the closest AP to the client to communicate with it, since it has a greater RSSI from the client.
    d) All APs share a virtual Multicast Address. A controller will tell the closest AP to the client to communicate with it, since it has a greater RSSI from the client.

Answer: c

Question: 6

A museum wants to offer Wi-Fi to its visitors. One of their requirements is to have the APs blend into the design of the museum. What should you do to meet this requirement?

    a) Lock the AP inside of a metal box
    b) Use a plastic cover that could blend in with the environment
    c) Use an 802.11b AP, so it looks old enough to be in a museum
    d) Place the APs in between walls and I-beams

Answer: b

Question: 7

Your customer requires fast secure roaming. Which two types of roaming are specified in 802.11-2016 FT roaming that will help meet this goal?

a) Over-the-Air and Over-the-DS
b) FT and TKIP
c) Over-the-Air and Over-the-Wire
d) FT and OKC

Answer: d

Question: 8

What is the most suitable antenna option to be used when designing a WLAN infrastructure with APs mounted on a ceiling with a height of more than 20 feet and having all of the client stations used from the floor?

a) Low-gain dipole
b) Grid
c) Dish
d) Patch

Answer: b

Question: 9

When installing APs on high ceilings, what should be the most common PPE to be used?

a) Hardhat, high visibility vest and body belt
b) Clean suits, masks and glasses
c) Glasses, gloves and jacket
d) Clean suits, gloves and jacket

Answer: a

Question: 10

Which DHCP option, when required, should be configured and enabled to help APs locate their wireless LAN controller?

a) 150
b) 62
c) 43
d) 22

Answer: c

Study Guide to Crack CWNP Wi-Fi Design CWDP-304 Exam:

- Getting details of the CWDP-304 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the CWDP-304 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the CWNP provided training for CWDP-304 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the CWDP-304 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on CWDP-304 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

Reliable Online Practice Test for CWDP-304 Certification

Make NWExam.com your best friend during your Wireless Design Professional exam preparation. We provide authentic practice tests for the CWDP-304 exam. Experts design these online practice tests, so we can offer you an exclusive experience of taking the actual CWDP-304 exam. We guarantee you 100% success in your first exam attempt if you continue practicing regularly. Don't bother if you don't get 100% marks in initial practice exam attempts. Just utilize the result section to know your strengths and weaknesses and prepare according to that until you get 100% with our practice tests. Our evaluation makes you confident, and you can score high in the CWDP-304 exam.

Start online practice of CWDP-304 Exam by visiting URL
https://www.nwexam.com/cwnp/cwdp-304-cwnp-wireless-design-professional-cwdp