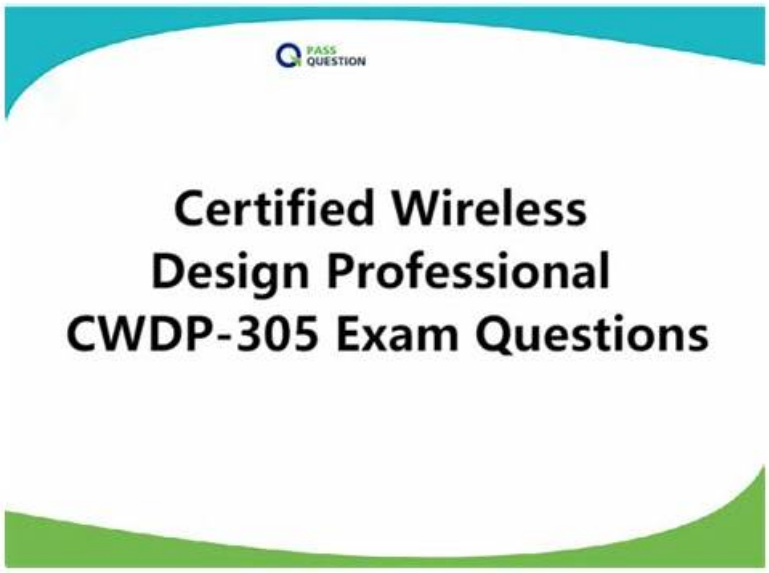
Interactive CWDP-305 Course - CWDP-305 Exam Book



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CWNP CWDP-305 Exam Syllabus Topics:

Topic	Details
Topic 1	• Design the WLAN: This section of the exam measures the skills of a WLAN Design Engineer and covers the process of selecting configurations, architecture types, and wireless components to meet business and technical requirements. It includes using design software, selecting access points and antennas, and applying methodologies such as predictive or measured design. Candidates must demonstrate the ability to produce effective documentation and configure features like QoS, roaming security, and network services for different types of client devices and applications.
Topic 2	• Validate and Optimize the WLAN: This section of the exam measures the skills of a WLAN Optimization Specialist and assesses the ability to test, validate, and fine-tune wireless networks post-deployment. Key tasks include RF validation surveys, performance testing, troubleshooting connectivity and security issues, and applying appropriate physical or RF adjustments. It also involves client testing and final project handover, including documentation, knowledge transfer, and meetings to ensure long-term WLAN success.
Topic 3	• Deploy the WLAN: This section of the exam measures the skills of a WLAN Implementation Specialist and involves overseeing the deployment phase of wireless networks. It focuses on understanding deployment procedures for various WLAN architectures, configuring supporting infrastructure, and verifying proper installation. The section also addresses physical installation checks, documentation handover, and quality assurance practices during ongoing installations.

Topic 4	• Define Specifications for the WLAN: This section of the exam measures the skills of a Wireless Network Planner and focuses on gathering business and technical requirements needed for designing wireless LANs. It includes understanding user needs, regulatory and safety constraints, and environmental factors. Candidates are expected to identify critical elements such as coverage, capacity, security, and device compatibility, and to analyse existing infrastructure and documentation to ensure a successful design strategy.

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CWNP Certified Wireless Design Professional Sample Questions (Q209-Q214):

NEW QUESTION # 209
After designing and deploying a WLAN infrastructure, you realized the CCI is causing poor performance in the 2.4 GHz band. Primarily, you've designed the WLAN for 5 GHz and 2.4 GHz as a best effort. You found out that the implementers didn't follow your guidelines when configuring the WLAN infrastructure. What can you do to minimize as much as possible the CCI impact in the 2.4 GHz band?

- A. Use all channels available in the 2.4 GHz band
- B. Increase the transmit power on all APs
- C. Add more APs to the infrastructure
- D. Turn-off 2.4 GHz radios on some APs

Answer: D

Explanation:
Comprehensive and Detailed Explanation:
Co-Channel Interference (CCI) in the 2.4 GHz band can significantly degrade WLAN performance due to the limited number of non-overlapping channels available.If the WLAN was primarily designed for 5 GHz, the
2.4 GHz band serves as a secondary or best-effort option.In such cases, turning off 2.4 GHz radios on some APs can reduce CCI by minimizing overlapping coverage areas, thereby improving overall network performance.
Reference: CWDP-305 Official Study and Reference Guide, Chapter on Post-Design ValidationandTroubleshooting

NEW QUESTION # 210
When surveying an existing WLAN infrastructure for a possible redesign, you use two Wi-Fi USB adapters to collect RSSI data and two USB spectrum analysis adapters to collect RF spectrum data. Since your laptop doesn't have enough USB ports, you use a 4-port powered USB 3.0 hub. What issues could be caused by the use of USB 3.0 that will impact your site survey?

- A. It does not give you enough bandwidth to collect data coming from all of the adapters.
- B. It generates noise in the 5 GHz band, giving you a false perception of the noise floor.
- C. It does not give you enough power for all four of your adapters.
- D. It generates noise in the 2.4 GHz band, giving you a false perception of the noise floor.

Answer: D

Explanation:
USB 3.0 devices and hubs can emit electromagnetic interference (EMI) in the 2.4 GHz frequency band, which is commonly used by Wi-Fi and Bluetooth devices. This interference can elevate the noise floor in the 2.4 GHz band, leading to inaccurate readings during site surveys. Such interference can result in misinterpretation of the RF environment, potentially impacting the design and

performance of the WLAN.YouTube The CWDP-305 Official Study and Reference Guide advises caution when using USB 3.0 devices during site surveys:
"Be aware that USB 3.0 devices can cause interference in the 2.4 GHz band. When conducting site surveys, ensure that equipment used does not introduce additional noise that could skew results." Reference: CWDP-305 Official Study and Reference Guide, Chapter on Advanced Site Surveys

NEW QUESTION # 211
Given:As the wireless network administrator for XYZ Company, you are planning to upgrade your aging wireless network infrastructure, as well as some clients, to support 802.11ac. In your research, you have discovered that your new wireless client devices and infrastructure are 802.11ac, WMM, and WMM-PS certified by the Wi-Fi Alliance. Some of your existing client devices are 802.11a/b/g devices that do not support WMM.
Given this information, what scenario is possible when your company's employees begin using both types of client devices on the new WLAN?

- A. WMM-PS enabled APs will allow both WMM-PS and non-WMM-PS stations to use the trigger-and- delivery mechanism, but WMM-PS stations will be prioritized.
- B. Performance and battery life will be inconsistent between WMM-PS and non-WMM-PS client devices when used with applications that support WMM-PS.
- C. The WLAN infrastructure will set the dozing times of the WMM-PS certified client devices based upon their WMM access category, while the non-WMM-PS client devices will continue to use PS-Poll frames.
- D. All WMM-PS certified client devices will be prevented from utilizing WMM-PS features until all stations in use on the wireless medium are WMM-PS certified.

Answer: B

Explanation:
In environments where both WMM-PS (Wi-Fi Multimedia Power Save) certified and non-WMM-PS client devices coexist, disparities in performance and battery life can occur. WMM-PS enhances power-saving mechanisms by allowing devices to enter low-power states and schedule transmissions efficiently. Non- WMM-PS devices, lacking this capability, rely on traditional power-saving methods like PS-Poll, which are less efficient. As a result, WMM-PS devices benefit from improved battery life and performance, while non- WMM-PS devices may experience reduced efficiency.
Reference: CWDP-305 Official Study and Reference Guide, Chapter on Designing for Specific Applications

NEW QUESTION # 212
Main Topic:Infrastructure Design
Question:
What operational plane would a WNMS primarily interact with?

- A. Data
- B. Distribution
- C. Control
- D. Integration
- E. Management

Answer: E

Explanation:
Comprehensive and Detailed Explanation:
A Wireless Network Management System (WNMS) is designed to monitor, configure, and manage wireless network components. It primarily interacts with theManagement Plane, which is responsible for:
Monitoring network performance.
Configuring network devices.
Managing firmware updates and policies.
This interaction allows administrators to oversee the network's health and make necessary adjustments to maintain optimal performance.
Reference:CWDP-305 Study Guide, Chapter on Infrastructure Design - Network Management Planes.

NEW QUESTION # 213
Your new customer is concerned about maintaining privacy for their proprietary information when you conduct information gathering for their WLAN design. Which document can you use to directly address their concern?

- A. NDA
- B. BoM
- C. SoW
- D. Hold Harmless

Answer: A

NEW QUESTION # 214
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