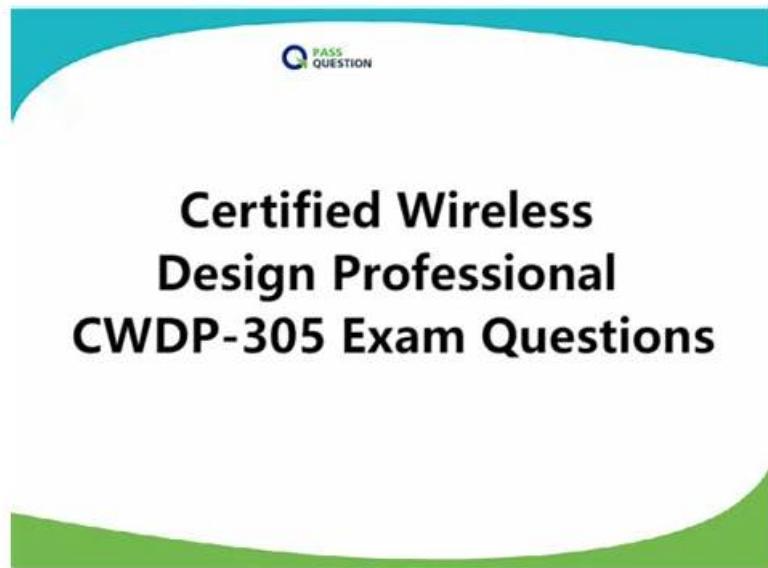


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CWNP CWDP-305 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <ul style="list-style-type: none">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. |

| | |
|---------|--|
| Topic 2 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 4 | <ul style="list-style-type: none"> 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. |

CWNP Certified Wireless Design Professional Sample Questions (Q161-Q166):

NEW QUESTION # 161

During a public Wi-Fi session with 10 other users, you run a ping sweep but cannot detect any devices on your subnet. What feature is likely enabled on the WLAN infrastructure to prevent local communication between clients?

- A. OSPF external routes
- B. Load balancing
- C. Peer-to-peer blocking**
- D. Band steering

Answer: C

Explanation:

In public Wi-Fi environments, it's common to implement security measures that prevent clients from communicating directly with each other. This is achieved through peer-to-peer blocking, also known as client isolation. When enabled, this feature ensures that each client can communicate with the AP and access external networks but cannot interact with other clients on the same WLAN. This setup enhances security by reducing the risk of attacks or unauthorized access between clients.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Post-Design Validation and Troubleshooting

NEW QUESTION # 162

What is the most appropriate antenna which will require the least Intentional Radiator power for a point-to-point bridge link spanning 1200 meters?

- A. 2.2 dBi omnidirectional
- B. 5 dBi patch
- C. 11 dBi dish**
- D. 11 dBi omnidirectional

Answer: C

NEW QUESTION # 163

A North American business traveler connects to a hotel's 2.4 GHz SSID in Europe and notices low RSSI from an AP in the room but experiences no issues with RSSI in the lobby. What is the most likely reason for the low RSSI in the room?

- A. The AP in the room is transmitting on channel 13 and the traveler associated to an AP on channels 1 through 11 in the lobby
- B. The switchport that the AP is connected to is only capable of transmitting at 10 Mbps
- C. The AP in the room is using Bluetooth instead of Wi-Fi
- D. The AP in the room is using ZigBee instead of Wi-Fi

Answer: A

Explanation:

In North America, Wi-Fi devices operating in the 2.4 GHz band are typically restricted to channels 1 through 11. However, in Europe, channels 12 and 13 are also permitted. If a European AP is configured to operate on channel 13, a North American device may not recognize or connect to it, leading to low RSSI readings or inability to connect.

Passei Direto

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In this scenario, the AP in the room is likely operating on channel 13, which the traveler's device cannot utilize, resulting in low RSSI. Conversely, the lobby APs are operating on channels 1 through 11, which are compatible with the traveler's device, leading to normal RSSI readings.

Other options, such as the AP using ZigBee or Bluetooth, are unlikely, as these technologies are distinct from Wi-Fi and would not present as Wi-Fi SSIDs. The switchport speed, while affecting throughput, does not directly impact RSSI.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Protocol and Spectrum Analysis

NEW QUESTION # 164

Before performing a pre-deployment passive RF survey of a new deployment using survey mapping software, which of the following must be performed?

- A. Determining AP transmit power
- B. Scaling the map
- C. Selecting antennas
- D. Checking client DTCP settings

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

When conducting a predictive or passive RF site survey using survey software, accurately scaling the map is a critical initial step.

Without proper scaling, distance and RF propagation calculations will be inaccurate, leading to flawed design outcomes.

"Scaling the map is a required step before placing APs, drawing walls, or running simulations in predictive tools. All distance-based calculations rely on this reference."

- CWDP-305 Study Guide, Chapter: Advanced Site Surveys

NEW QUESTION # 165

A designer has created a WLAN design that has been implemented in an organization. The network exists in a four-story building. Because each floor has an identical floor plan, the designer designed only one floor and had the installers duplicate the design on each floor. Now, in validation, it is not performing well. What best explains the problem caused by this process?

- A. The result was that ACI was increased because the APs were deployed above and below each other on the same channels.
- B. The result was that clients could only connect to APs on their floor and, in a multi-floor deployment, you want clients to connect to APs on other floors in case they roam between floors.
- C. The result was that APs were above and below each other on the same channel, resulting in excessive CCI. The APs should have been deployed so that they were not directly above and below each other and so that they used varying channels between floors
- D. The result was that the frequency utilization was too low for the clients to capture RF waves on which to transmit their signals.

Answer: C

Explanation:

When APs are deployed in the same physical pattern across floors without channel and physical spacing considerations, co-channel

interference (CCI) between floors occurs. This is particularly problematic when APs on different floors are vertically aligned on the same channels.

From CWDP-305:

"In multi-floor deployments, avoid placing APs on the same vertical axis across floors using the same channel. This leads to CCI. Stagger AP locations and vary channels to reduce interference."

- Reference: CWDP-305 Official Study Guide, Wireless Design Process Chapter

NEW QUESTION # 166

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