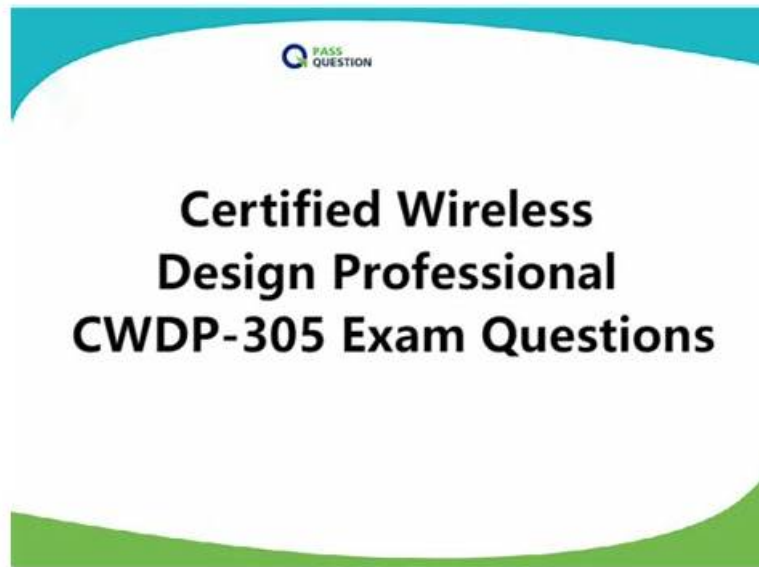


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CWNP CWDP-305 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 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"> • 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.
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CWNP Certified Wireless Design Professional Sample Questions (Q25-Q30):

NEW QUESTION # 25

A signal passes through a 10-meter cable, an amplifier, and then a filter. The amplifier has an output that is eight times higher in power than its input. Each meter of cable reduces the signal level by a factor of 4. The filter has a loss of 5 dB.

What is the total loss/gain of the three elements in series?

Response:

- A. 56 dB loss
- **B. 37 dB loss**
- C. 65 dB loss
- D. 16 dB gain

Answer: B

NEW QUESTION # 26

Main Topic:Infrastructure Design

Question:

Which operational plane would be responsible for performing automated RF management?

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

Answer: E

Explanation:

Comprehensive and Detailed Explanation:

In WLAN architecture, the Management Plane is responsible for overseeing and configuring the network's operational aspects, including automated RF management tasks such as:

Dynamic Channel Assignment

Transmit Power Control

Load Balancing

Coverage Hole Detection and Correction

These functions ensure optimal performance and reliability of the wireless network by adapting to changing RF conditions.

Reference:CWDP-305 Study Guide, Chapter on Infrastructure Design - Operational Planes in WLAN Architecture.

NEW QUESTION # 27

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. Patch
- D. Dish

Answer: C

NEW QUESTION # 28

What happens when you double the channel width (for example, use channel bonding) in a BSS?

- A. Higher noise and higher SNR at the receiver
- B. Lower noise and higher SNR at the receiver
- C. Lower noise and lower SNR at the receiver
- D. Higher noise and lower SNR at the receiver

Answer: D

Explanation:

Doubling the channel width increases the noise floor because the receiver is now listening over a wider range of frequencies, which can include more interference sources. This results in a decrease in SNR (Signal-to- Noise Ratio), which can negatively impact performance, especially in high-density deployments.

From CWDP-305:

"Channel bonding increases the bandwidth but also increases the amount of noise received. The increased noise can reduce the effective SNR and result in performance degradation, particularly in congested environments."

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

NEW QUESTION # 29

Main Topic: Protocol and Spectrum Analysis

Question:

SSID hiding is not generally recommended because some frames require inclusion of the SSID. In what frames is the SSID always included?

- A. Authentication response
- B. Probe response
- C. Probe request
- D. Beacon
- E. Association request

Answer: E

Explanation:

Comprehensive and Detailed Explanation:

While SSID hiding might seem like a security measure, it's not effective because certain management frames must include the SSID, making it discoverable. Specifically, the Association Request frame always includes the SSID. This frame is sent by a client device when it attempts to associate with an access point (AP), and it must specify the SSID to identify the desired network. Therefore, even if the SSID is hidden in beacon frames, it can still be detected through association requests.

Beacon frames: Typically used by APs to advertise their presence; can be configured to omit the SSID.

Probe request/response frames: Used during active scanning; the SSID may or may not be included.

Authentication response frames: Do not necessarily include the SSID.

Reference: CWDP-305 Study Guide, Chapter on Protocol Analysis - Management Frames.

NEW QUESTION # 30

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