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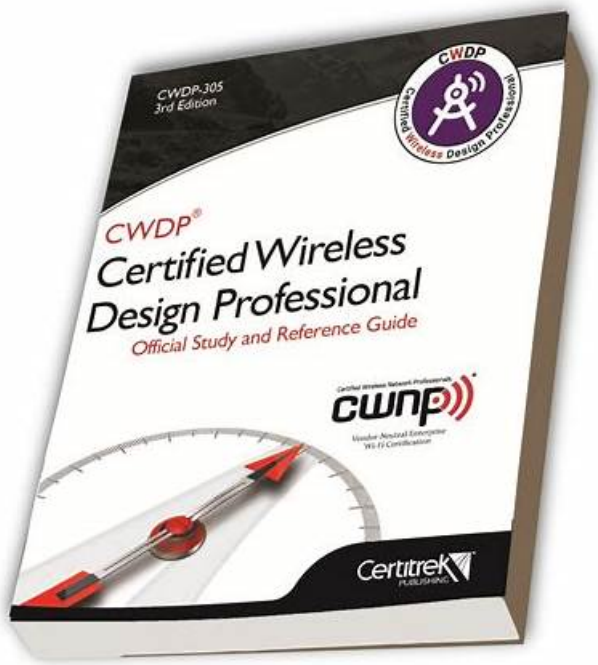

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CWNP CWDP-305 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 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	• 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 (Q79-Q84):

NEW QUESTION # 79
A controller-based WLAN infrastructure has its controller on a different subnet than its APs. What device must be used to enable any communication between the Controller and the APs?

- A. Router
- B. NTP server
- C. Wireless bridge
- D. PoE Layer 2 switch

Answer: A

NEW QUESTION # 80
Main Topic:Post-Design ValidationandTroubleshooting
Question:
During a post-validation assessment, you have configured a client for 802.1X/EAP but it is not passing authentication. Which areas should you check in the WLAN configuration?

- A. Whether the authenticator is configured to support the EAP type(s) your client is configured for
- B. Whether the client has a fully valid certificate
- C. Whether the RADIUS server is online and configured for the matching port on the APs and WLAN controllers
- D. Whether the RADIUS shared secret is properly configured on the supplicant and authentication server

Answer: A,B,C

Explanation:
Comprehensive and Detailed Explanation:
When troubleshooting 802.1X/EAP authentication issues, consider the following:
A:Ensure the RADIUS server is online and that the APs and WLAN controllers are configured to communicate with it on the correct port. Misconfigured ports can prevent authentication requests from reaching the server.
C:Verify that the authenticator (e.g., AP or controller) supports the EAP type configured on the client. A mismatch can lead to

authentication failures.
D:If using certificate-based EAP methods (like EAP-TLS), confirm that the client's certificate is valid, not expired, and trusted by the RADIUS server. Certificate issues are common causes of authentication problems.
Note:
B:The RADIUS shared secret is configured between the authenticator and the RADIUS server, not on the client (supplicant). Therefore, this option is not applicable.
Reference:CWDP-305 Study Guide, Chapter on Post-Design ValidationandTroubleshooting - 802.1X/EAP Authentication Issues.

NEW QUESTION # 81
While performing a validation site survey, you realize that overlapping channels are being used on the 2.4 GHz bad due to the automatic channel assignment algorithm of the WLAN infrastructure.
What should you do to prevent this?

- A. Reconfigure the automatic channel assignment settings to use only channels 1, 6, and 11
- B. Reconfigure the network to use static channel plans because automatic channel assignment algorithms are all broken
- C. Purchase and deploy new APs from a different vendor
- D. Leave it as it is; sometimes using all 11 channels in 2.4 GHz gives the optimum performance result

Answer: A

NEW QUESTION # 82
What happens when you double the channel width (for example, use channel bonding) in a BSS?

- A. Higher noise and lower 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 higher SNR at the receiver

Answer: A

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 ProtocolandSpectrum Analysis

NEW QUESTION # 83
You have enabled IEEE 802.11r FT (Fast Transition) in your WLAN infrastructure. You want to verify roaming between APs (two at a time) and determine if all of your endpoints are capable of performing fast roaming. What tool would you use to achieve this goal?

- A. WLAN scanner/discovery tool and two Wi-Fi adapters (one for each channel of the chosen bands)
- B. RF Spectrum Analyzer and two spectrum adapters (one for each band)
- C. Protocol Analyzer and two Wi-Fi adapters (one for each channel of the chosen bands)
- D. Predictive design tool and two Wi-Fi adapters (one for each band)

Answer: C

Explanation:
To validate fast roaming (802.11r), a protocol analyzer is required to capture authentication frames and reassociation frames between APs. These allow you to verify if fast BSS transitions are occurring and if the endpoint is participating in FT.
From CWDP-305:
"Fast BSS Transition (802.11r) validation requires capturing EAP exchanges and reassociation frames during roaming. A protocol analyzer with multiple adapters can monitor channels simultaneously during transitions."
- Reference: CWDP-305 Official Study and Reference Guide, Chapter on Post-Design ValidationandTroubleshooting

NEW QUESTION # 84
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