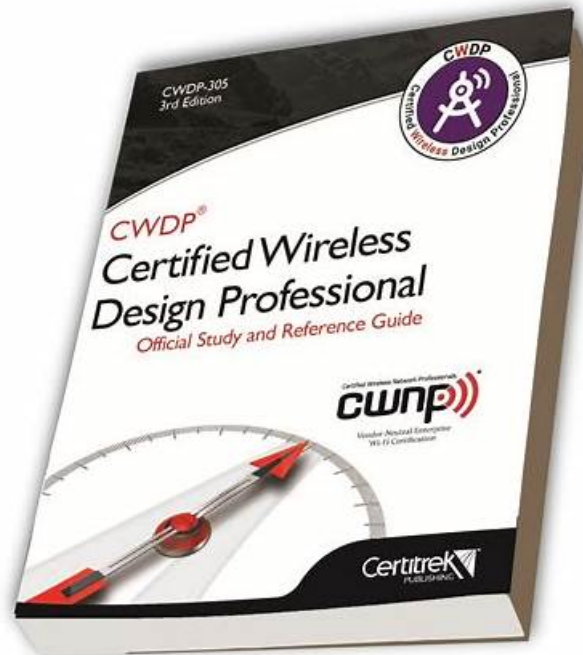


100% Pass 2025 High Hit-Rate CWNP CWDP-305: Certified Wireless Design Professional Prep Guide



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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	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	• 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 4	• 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.

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CWNP Certified Wireless Design Professional Sample Questions (Q54-Q59):

NEW QUESTION # 54

ABC Company has a WLAN controller with 10 controller-based APs; the Voice SSID is configured for centralized data forwarding. Each AP is connected to an access port on a layer-2 Ethernet switch. Each layer-2 switch is uplinked to a single layer-3 core Ethernet switch. The WLAN controller is connected directly to the layer-3 core Ethernet switch. Layer-3 tunnels are created between all controller-based APs and the WLAN controller. A voice server is connected to the layer-3 Ethernet switch.

When a voice-enabled QoS STA sends an IP data packet to a voice server in this scenario, the DSCP value carried in the STA's IP data packet gets mapped to what and by which device?

- A. The DSCP value is mapped to an IEEE 802.1Q priority tag value by the WLAN controller.
- B. The DSCP value is mapped to an IEEE 802.1Q VLAN tag by the access point.
- C. The DSCP value is mapped to the DSCP value in the encapsulating IP header by the layer-3 switch.
- D. The DSCP value is mapped to an IEEE 802.1p (802.1D-2004) UP value by the access point.

Answer: A

Explanation:

In a centralized data forwarding architecture, Access Points (APs) tunnel all client traffic to the WLAN controller. The controller then processes this traffic and forwards it to the appropriate destination. During this process, the controller maps the Differentiated Services Code Point (DSCP) values from the client's IP packets to the appropriate IEEE 802.1Q priority tag values. This mapping ensures that Quality of Service (QoS) is maintained across the wired network, allowing switches and routers to prioritize traffic based on these tags. Cisco Reference: CWDP-305 Official Study and Reference Guide, Chapter on Infrastructure Design

NEW QUESTION # 55

What kind of applications have the characteristic of many communications back and forth between the server and client for each transaction initiated by the user? For example, several files, images, and other data files may be required to download to the client with each click from the user. Choose the best answer.

- A. Console management interfaces
- B. High-data bandwidth application
- C. Web-based application

- D. Mobile apps
- E. Real-time application

Answer: C

Explanation:

Web-based applications are designed to operate over the internet using web browsers. Each user interaction, such as clicking a link or submitting a form, typically results in multiple communications between the client and server. These interactions often involve the transfer of various resources, including HTML files, CSS stylesheets, JavaScript files, images, and other data.

This pattern of frequent back-and-forth communication can place significant demands on network resources, particularly in terms of bandwidth and latency. When designing WLANs to support web-based applications, it's essential to ensure sufficient capacity and performance to handle these demands effectively.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Designing for Specific Applications

NEW QUESTION # 56

If radar has reportedly been detected on your WLAN deployment, what bands would you consider avoiding?

Response:

- A. 5 GHz UNII-2 and 3
- B. 5 GHz UNII-1 and 2
- **C. 5 GHz UNII-2 and 2e**
- D. 5 GHz UNII-2, 2e, and 3
- E. 5 GHz UNII-1, 2, and 3

Answer: C

NEW QUESTION # 57

How much more power can a 1 Mbps 802.11b signal have than a 54 Mbps 802.11g signal if it is sent through a saturated amplifier?

- A. 2 dBm
- **B. 5 dB**
- C. 5 dBm
- D. 2 dB

Answer: B

Explanation:

In wireless communications, lower data rates like 1 Mbps in 802.11b use simpler modulation schemes, allowing them to tolerate higher power levels before distortion occurs. Conversely, higher data rates like 54 Mbps in 802.11g use more complex modulation, which is more susceptible to distortion at high power levels.

When both signals are passed through a saturated amplifier, the 1 Mbps 802.11b signal can handle approximately 5 dB more power than the 54 Mbps 802.11g signal without significant distortion. This difference is crucial in designing systems to ensure signal integrity across varying data rates.

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

NEW QUESTION # 58

What is the minimum PoE budget needed on a switch to support 6 (six) APs that can only be powered using IEEE 802.3at if no other details are provided?

- A. 320 W
- B. 240 W
- C. 60 W
- **D. 180 W**

Answer: D

NEW QUESTION # 59

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