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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 (Q112-Q117):

NEW QUESTION # 112

In a large enterprise (5000+ wireless users), what would NOT be a recommended method by which IP addresses and VLANs are assigned to different clients associated to the same AP?

- A. Each SSID is mapped to a static VLAN assignment
- B. Radio signal metrics (RSSI, SNR, etc.) of WLAN clients are triangulated for location-based VLAN assignment during association
- C. Upstream AAA servers dynamically assign VLANs to each user or group profile
- D. Multiple VLAN pools are designated for an SSID and user IP addresses are selected in a round-robin fashion from the associated pools

Answer: B

Explanation:

In large enterprise WLAN deployments, efficient IP address and VLAN assignment is crucial for scalability and performance.

Common and recommended methods include:

Static VLAN Assignment per SSID: Each SSID is mapped to a specific VLAN, allowing for straightforward traffic segregation.

Dynamic VLAN Assignment via AAA: Utilizing RADIUS servers to assign VLANs based on user credentials or group memberships provides flexibility and centralized control.

VLAN Pooling: Assigning IP addresses from multiple VLANs in a round-robin fashion helps distribute clients evenly and prevents DHCP exhaustion.

However, assigning VLANs based on real-time radio signal metrics like RSSI or SNR is not a standard or recommended practice.

Such metrics are variable and can lead to inconsistent VLAN assignments, complicating network management and potentially affecting client performance.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Infrastructure Design

NEW QUESTION # 113

Main Topic:Infrastructure Design

Question:

You are configuring an 802.11ac AP using manual channel planning. The design specification calls for the current AP to be placed on channel 56 in 5 GHz and to disable the 2.4 GHz radio.

For what could the 2.4 GHz radio be used if not standard AP operations?

- A. Controller-based channel assignment
- **B. Security monitoring**
- C. Bluetooth access
- D. PCI DSS encoding

Answer: B

Explanation:

Comprehensive and Detailed Explanation:

In scenarios where the 2.4 GHz radio is not used for standard access point operations, it can be repurposed for functions such as security monitoring. Utilizing the 2.4 GHz radio for monitoring allows the network to detect unauthorized devices, rogue APs, and potential security threats, thereby enhancing the overall security posture of the wireless network.

Reference:CWDP-305 Study Guide, Chapter on Infrastructure Design - Repurposing Radios for Security Monitoring.

NEW QUESTION # 114

Given: The 802.11ac APs you have selected for your public access deployment support many of the PHY and MAC enhancements offered by the 802.11n and

802.11ac amendments. The AP is configured for a single-band (2.4 GHz) and only allows 20 MHz channels.

The WLAN radio in the AP is a 3x3

802.11n chip that supports two spatial streams.

What is the maximum MCS rate that could be supported by this AP?

- A. 54 Mbps
- B. 65 Mbps
- C. 108 Mbps
- **D. 144 Mbps**

Answer: D

NEW QUESTION # 115

What is the primary reason for avoiding 160 MHz channels with 802.11 in the 5 GHz band?

- A. The output power required for 160 MHz channels is more than most regulatory domains allow
- **B. Only two or three 160 MHz channels exist in the current frequency allocation; in some regulatory domains, only one exists**
- C. The data rate becomes too high, which causes some clients to gain access to the medium and never let it go
- D. No APs exist in production that can implement 160 MHz channels

Answer: B

Explanation:

160 MHz channels consume a large portion of the available spectrum. Due to DFS and regulatory limitations, very few 160 MHz-wide channels are available in the 5 GHz band. This makes them impractical for most enterprise environments where avoiding interference and ensuring channel reuse are critical.

From CWDP-305:

"Due to the limited number of non-overlapping 160 MHz channels in the 5 GHz band-and DFS limitations- these channels are difficult to deploy in enterprise WLANs. This limits their usefulness in dense environments."

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

NEW QUESTION # 116

You are conducting a physical site survey where heavy machinery is repaired. What is a common item required specifically for this

type of survey?

- A. Personal Protective Equipment (PPE)
- B. Low gain antennas
- C. Low power APs
- D. Indoor APs

Answer: A

Explanation:

Conducting a site survey in environments such as heavy machinery repair facilities involves potential hazards, including moving equipment, loud noises, and other safety risks. Therefore, wearing Personal Protective Equipment (PPE) is essential to ensure the safety of the surveyor.

The CWDP-305 Official Study and Reference Guide advises:

"When performing site surveys in industrial or hazardous environments, always adhere to safety protocols, including the use of appropriate Personal Protective Equipment (PPE) such as hard hats, safety glasses, and steel-toed boots." This ensures that the survey is conducted safely and complies with occupational health and safety regulations.

Reference: CWDP-305 Official Study and Reference Guide, Chapter on Advanced Site Surveys

NEW QUESTION # 117

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