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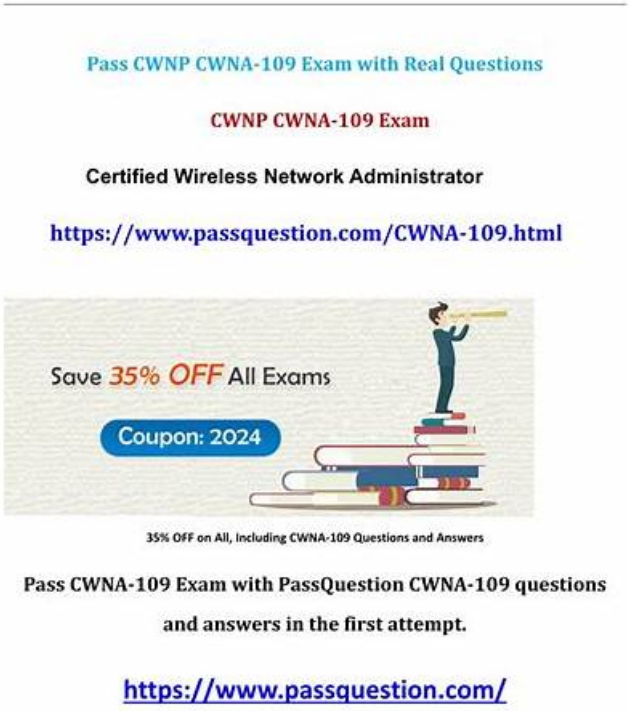

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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	• RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.
Topic 2	• WLAN Protocols and Devices: It focuses on terminology related to the 802.11 MAC and PHY, the purpose of the three main 802.11 frame types, MAC frame format, and 802.11 channel access methods.

Topic 3	• WLAN Regulations and Standards: The topic discusses the roles of WLAN and networking industry organizations. It also addresses the concepts of various Physical Layer (PHY) solutions, spread spectrum technologies, and 802.11 WLAN functional concepts.
Topic 4	• Radio Frequency (RF) Technologies: This topic explains the basic features and behavior of RF. It also discusses applying the basic concepts of RF mathematics and measurement. Lastly, the topic covers RF signal characteristics and the functionality of RF antennas.
Topic 5	• WLAN Network Security: It addresses the concepts of weak security options, security mechanisms for enterprise WLANs, and security options and tools used in wireless networks.

CWNA-109 Practice Materials: CWNP Wireless Network Administrator (CWNA) & CWNA-109 Test King & CWNA-109 Test Questions

Are you racking your brains for a method how to pass CWNP CWNA-109 exam? CWNP CWNA-109 certification test is one of the valuable certification in modern IT certification. Within the last few decades, IT got a lot of publicity and it has been a necessary and desirable part of modern life. CWNP certification has been well recognized by international community. So, most IT people want to improve their knowledge and their skills by CWNP certification exam. CWNA-109 test is one of the most important exams and the certificate will bring you benefits.

CWNP Wireless Network Administrator (CWNA) Sample Questions (Q70-Q75):

NEW QUESTION # 70
A dual-band 802.11ac AP must be powered by PoE. As a class 4 device, what power level should be received at the AP?

- A. 15.4 W
- B. 30 W
- C. 12.95 W
- D. 25.5 W

Answer: D

Explanation:
PoE has different standards that define different power levels for PSEs and PDs. The original standard, IEEE 802.3af, defines two classes of PSEs: Class 3 (15.4 W) and Class 4 (30 W). The newer standard, IEEE 802.3at, also known as PoE+, defines four classes of PSEs: Class 0 (15.4 W), Class 1 (4 W), Class 2 (7 W), and Class 3 (12.95 W). The power level received at the PD is always lower than the power level provided by the PSE, due to cable resistance and power dissipation. The IEEE standards specify the minimum power level that must be received at the PD for each class of PSE. For a Class 4 PSE, the minimum power level received at the PD is
25.5 W910. References: CWNA-109 Study Guide, Chapter 7: Power over Ethernet (PoE), page 295; CWNA-109Study Guide, Chapter 7: Power over Ethernet (PoE), page 289.

NEW QUESTION # 71
Your consulting firm has recently been hired to complete a site survey for a company desiring an indoor coverage WI-AN. Your engineers use predictive design software for the task, but the company insists on a pre-design site visit.
What task should be performed as part of the pre-design visit to prepare for a predictive design?

- A. Evaluate the building materials at the facility and confirm that the floor plan documents are consistent with the actual building
- B. Test several antenna types connected to the intended APS for use in the eventual deployment
- C. Install at least one AP on each side of the exterior walls to test for co-channel interference through these walls
- D. Collect information about the company's security requirements and the current configuration of their RADIUS and user

database servers

Answer: A

Explanation:
A pre-design site visit in preparation for a predictive wireless LAN design is essential for gathering physical and environmental data about the site. The key tasks to be performed during such a visit include:
* Evaluating Building Materials: Different materials (concrete, glass, wood, etc.) have varying effects on RF signal propagation. Understanding the materials present helps in accurately predicting how signals will behave within the environment.
* Floor Plan Verification: Ensuring that the floor plan documents are an accurate representation of the actual building layout is crucial. Discrepancies between the floor plans and the physical layout can lead to inaccuracies in the predictive design.
The other options, while potentially valuable in other contexts, are not directly related to preparing for a predictive design:
* Installing APs(option A) for testing co-channel interference is more aligned with an active site survey rather than a pre-design visit for a predictive design.
* Collecting information about security requirements(option B) is important but is not directly related to the physical aspects of the site that would impact a predictive design.
* Testing antenna types(option C) would typically be part of an active site survey or the actual deployment phase, not a pre-design visit for predictive modeling.
Therefore, option D is the correct answer, focusing on evaluating physical aspects crucial for accurate predictive modeling.
References:
* CWNA Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109, by David D: Coleman and David A. Westcott.
* Best practices for conducting pre-design site visits in wireless network planning.

NEW QUESTION # 72
Which IEEE 802.11 physical layer (PHY) specification includes support for operation in the 2.4 GHz, 5 GHz, and 6 GHz bands?

- A. HT(802.11n)
- B. HE (802.11ax)
- C. HR/DSSS (802.11b)
- D. VHT (802.11ac).

Answer: B

Explanation:
The IEEE 802.11ax standard, also known as High-Efficiency Wireless (HEW) or simply HE, includes support for operation across multiple frequency bands: 2.4 GHz, 5 GHz, and, with the appropriate regulatory approvals, the 6 GHz band. This makes option D the correct answer. Here's how it compares to the other options:
* HE (802.11ax): Introduced as an enhancement over previous standards, 802.11ax is designed to improve efficiency, especially in dense environments. It supports operation in the 2.4 GHz, 5 GHz, and
6 GHz bands (the latter pending regulatory approval in various regions), making it highly versatile and future-proof.
* VHT (802.11ac): Very High Throughput, or 802.11ac, operates exclusively in the 5 GHz band. It introduced significant speed improvements over its predecessor (802.11n) but does not support the 2.4 GHz or 6 GHz bands.
* HT (802.11n): High Throughput, or 802.11n, supports operation in both the 2.4 GHz and 5 GHz bands.
However, it does not include support for the 6 GHz band.
* HR/DSSS (802.11b): High-Rate Direct Sequence Spread Spectrum, or 802.11b, operates only in the 2.4 GHz band. It was one of the early Wi-Fi standards and does not support 5 GHz or 6 GHz bands.
Given these distinctions, only 802.11ax (option D) supports operation across all three mentioned bands, aligning with the requirements stated in the question.
References:
* IEEE 802.11ax-2021: High-Efficiency Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications.
* Understanding the 802.11ax (Wi-Fi 6) standard and its implications for modern wireless networking.

NEW QUESTION # 73
You manage a WLAN with 100 802.11ac access points. All access points are configured to use 80 MHz channels. In a particular BSS, only 40 MHz communications are seen. What is the likely cause of this behavior?

- A. The AP is improperly configured to use only 40 MHz of the 80 MHz allocated bandwidth
- B. All clients implement single spatial stream radios

- C. The clients are all 802.11n STAs or lower
- D. The short guard interval is also enabled

Answer: C

Explanation:
https://7signal.com/802-11ac-migration-part-2-whats-nobodys-telling-you-about-80mhz-and-160mhz-channel- bonding The clients are all 802.11n STAs or lower is the likely cause of this behavior. If a WLAN with 100 802.11ac access points is configured to use 80 MHz channels, but only 40 MHz communications are seen in a particular BSS, it means that the clients in that BSS do not support 80 MHz channels. This could be because they are using older standards, such as 802.11n or lower, that do not support 80 MHz channels. Alternatively, they could be using newer standards, such as 802.11ac or ax, but have their channel width settings limited to 40 MHz or lower due to device capabilities or configuration options. In either case, the AP will adapt to the client's channel width and use only 40 MHz of the 80 MHz allocated bandwidth to communicate with them.
This will reduce the potential throughput and efficiency of the WLAN. References: , Chapter 3, page 111; , Section 3.2

NEW QUESTION # 74
You administer a small WLAN with nine access point. As a small business, you do not rum a RADIUS server and use WPA2-Personal for security. Recently, you changed the passphrase for WPA2-personal in all Aps and clients. Several users are now reporting the inability to connect to the network at time and it is constrained to one area of the building. When using scanner, you see that the AP covering that area is online

- A. The AP that covers the problem area requires a firmware update
- B. The clients are improperly configured
- C. The AP that covers the problem area has failed
- D. The AP that covers the problem area is improperly configured

Answer: B

Explanation:
This is because the passphrase for WPA2-Personal is case-sensitive and must match exactly on both the AP and the client. If the passphrase is entered incorrectly on the client, the client will not be able to authenticate with the AP and connect to the network. The AP that covers the problem area is not likely to require a firmware update, fail, or be improperly configured, as it is online and works with other clients that have the correct passphrase. To troubleshoot this issue, you can check the passphrase settings on the clients and make sure they matchwith the AP. You can also try to reconnect the clients to the network or reboot them if necessary. For more information on how to configure WPA2-Personal on your router

NEW QUESTION # 75
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