

Free PDF Quiz CWNP - CWNA-109 - CWNP Wireless Network Administrator (CWNA) Fantastic Certification Sample Questions



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CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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 3	<ul style="list-style-type: none">WLAN Network Architecture and Design Concepts: This topic deals with describing and implementing Power over Ethernet (PoE). Furthermore, the topic covers different wireless LAN architectures, coverage requirements, roaming considerations, and common proprietary features in wireless networks.
Topic 4	<ul style="list-style-type: none">RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.

Topic 5	<ul style="list-style-type: none">• 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.
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CWNP Wireless Network Administrator (CWNA) Sample Questions (Q69-Q74):

NEW QUESTION # 69

Which one of the following channels can be used for VHT transmissions according to the 802.11 specification?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: D

Explanation:

The channel that can be used for VHT transmissions according to the 802.11 specification is channel 144.

VHT stands for Very High Throughput and is the PHY layer specification for 802.11ac devices. VHT transmissions can use channel bandwidths of 20 MHz, 40 MHz, 80 MHz, or 160 MHz in the 5 GHz band.

Channel 144 is one of the channels in the 5 GHz band that can support VHT transmissions with any of these bandwidths. Channel 6, channel 1, and channel 11 are channels in the 2.4 GHz band that cannot support VHT transmissions, as they are only compatible with legacy (802.11b/g/n), HT (802.11n), or ERP (802.11g) transmissions with up to 20 MHz bandwidth. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 214; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 204.

NEW QUESTION # 70

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: Exam CWNA-109, by David D. Coleman and David A. Westcott.

Best practices for conducting pre-design site visits in wireless network planning.

NEW QUESTION # 71

You are implementing a multi-AP WLAN and fast secure roaming is essential. Which one of the following methods is an IEEE 802.11 standard method for fast roaming?

- A. Load balancing
- B. OKC
- **C. FT**
- D. Band steering

Answer: C

Explanation:

FT (Fast Transition) is an IEEE 802.11 standard method for fast roaming. FT is defined in the IEEE 802.11r amendment and is also known as Fast BSS Transition (FBT) or Fast Secure Roaming. FT is a feature that allows a client station to quickly switch from one AP to another within the same ESS (Extended Service Set) without having to re-authenticate and re-associate with each AP. This reduces the latency and packet loss that may occur during roaming, thus improving the user experience and maintaining the security of the connection. FT works by using pre-authentication and key caching mechanisms that allow the client station and the APs to exchange security information before the actual roaming occurs. This way, when the client station decides to roam to a new AP, it can use a fast reassociation request and response that contain only a few fields, instead of a full authentication and association exchange that require more time and data. References: 1, Chapter 9, page 367; 2, Section 6.3

NEW QUESTION # 72

You were previously onsite at XYZ's facility to conduct a pre-deployment RF site survey. The WLAN has been deployed according to your recommendations and you are onsite again to perform a post-deployment validation survey.

When performing this type of post-deployment RF site survey voice over Wi-Fi, what is an action that must be performed?

- **A. Application analysis with an active phone call on an VoWiFi handset.**
- B. Spectrum analysis to locate and identify RF interference sources.
- C. Frequency-band hopping analysis to detect improper RF channel implementations.
- D. Protocol analysis to discover channel use on neighboring APs.

Answer: A

Explanation:

When performing a post-deployment validation survey for voice over Wi-Fi (VoWiFi), an action that must be performed is Application analysis with an active phone call on a VoWiFi handset. Application analysis is a method of testing the performance of a specific application over the WLAN by measuring parameters such as throughput, latency, jitter, packet loss, MOS score, and R-value. Application analysis with an active phone call on a VoWiFi handset can help to evaluate the quality of service (QoS) and user experience of VoWiFi calls over the WLAN. It can also help to identify any issues or bottlenecks that may affect VoWiFi calls such as interference, roaming delays, or insufficient coverage. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 549; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 519.

NEW QUESTION # 73

A natural disaster has occurred in a remote area that is approximately 57 miles from the response team headquarters. The response team must implement a local wireless network using 802.11 WLAN access points.

What is the best method, of those listed, for implementation of a network back-haul for communications across the Internet in this scenario?

- A. Cellular/LTE/5G
- B. Temporary wired DSL
- C. 802.11 bridging to the response team headquarters
- D. Turn up the output power of the WLAN at the response team headquarters

Answer: A

Explanation:

Cellular/LTE/5G is the best method for implementing a network backhaul for communications across the Internet in a remote area that is affected by a natural disaster. This is because cellular/LTE/5G networks are wireless and do not depend on physical infrastructure that may be damaged or unavailable in such scenarios.

Cellular/LTE/5G networks also offer high-speed data transmission and wide coverage area, which are essential for emergency response operations. 802.11 bridging to the response team headquarters is not feasible because it requires line-of-sight and has limited range. Turning up the output power of the WLAN at the response team headquarters is not effective because it may cause interference and does not guarantee reliable connectivity. Temporary wired DSL is not practical because it requires installing cables and equipment that may not be available or accessible in a remote area. References: CWNA-109 Study Guide, Chapter 7: Wireless LAN Topologies, page 2031

NEW QUESTION # 74

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