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## CWNP CWNA-109 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>

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## CWNP Wireless Network Administrator (CWNA) Sample Questions (Q118-Q123):

NEW QUESTION # 118

Lynne runs a small hotel, and as a value added service for his customers he has implemented a Wi-Fi hot-spot. Lynne has read news articles about how hackers wait at hot-spots trying to take advantage of unsuspecting users. He wants to avoid this problem at his hotel. What is an efficient and practical step that Lynne can take to decrease the likelihood of active attacks on his customers' wireless computers?

- A. **Enable station-to-station traffic blocking by the access points in the hotel.**
- B. Implement Network Access Control (NAC) and require antivirus and firewall software along with OS patches.
- C. Require EAP-FAST authentication and provide customers with a username/password on their receipt.
- D. Implement an SSL VPN in the WLAN controller that initiates after HTTPS login.

**Answer: A**

Explanation:

In a public Wi-Fi hotspot, like the one Lynne runs in his hotel, ensuring customer security against active attacks is crucial. Active attacks involve unauthorized access, eavesdropping, or manipulation of the network traffic. To mitigate such threats, an effective and practical step is:

\* Station-to-Station Traffic Blocking: Also known as client isolation, this feature prevents direct communication between devices connected to the Wi-Fi network. By enabling this on the access points, Lynne can significantly decrease the likelihood of active attacks like man-in-the-middle (MITM) attacks, where an attacker intercepts and possibly alters the communication between two parties.

The other options, while beneficial for network security, might not be as straightforward or practical for Lynne's situation:

\* Network Access Control (NAC) requires a more complex infrastructure and management, which might not be ideal for a small hotel setup.

\* Implementing an SSL VPN adds an extra layer of security but might complicate the login process for users, potentially affecting the user experience.

\* Requiring EAP-FAST authentication provides secure authentication but may not be feasible for transient customers who expect quick and easy network access.

Therefore, enabling station-to-station traffic blocking is a practical and efficient measure that Lynne can implement to enhance customer security on the Wi-Fi network.

References:

\* CWNA Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109, by David D. Coleman and David A. Westcott.

\* Best practices for securing a wireless network in a public hotspot environment.

**NEW QUESTION # 119**

XYZ Company has decided to install an 802.11 WLAN system that will support 1083 wireless users, but they are concerned about network security. XYZ is interested in deploying standardized security features. In addition to WPA2-Enterprise with PEAP and role-based access control, XYZ would like to support management frame protection as well as a fast secure roaming protocol for future mobile handsets.

As XYZ Company selects a product to deploy, what two IEEE amendments, which are included in 802.11-2016, and 802.11-2020 should be supported to provide the management frame protection and fast secure roaming security features?

- A. **802.11r and 802.11w**
- B. 802.11k and 802.11v
- C. 802.11j and 802.11z
- D. 802.11j and 802.11k

**Answer: A**

Explanation:

The two IEEE amendments that should be supported to provide the management frame protection and fast secure roaming security features are 802.11r and 802.11w.

\* 802.11r (Fast BSS Transition): This amendment to the IEEE 802.11 standard permits continuous connectivity aboard wireless devices in motion, with fast and secure client transitions from one Basic Service Set to another.

\* 802.11w (Management Frame Protection): This amendment increases the security of its management frames.

**NEW QUESTION # 120**

In an 802.11 2.4 GHz system, what 22 MHz channels are considered non-overlapping?

- A. 1 and 5
- B. 4 and 6
- C. 2 and 8
- D. 7 and 11

**Answer: A**

Explanation:

In the 2.4 GHz frequency band used for 802.11 wireless networks, the channel bandwidth is typically 20 MHz, but the actual frequency spread of each channel is about 22 MHz due to the modulation techniques used. This spread causes overlap between adjacent channels, which can lead to interference and degrade network performance. To avoid this, it's essential to use non-overlapping channels.

The three non-overlapping channels in the 2.4 GHz band are 1, 6, and 11. Each of these channels is spaced sufficiently apart to avoid interference with each other:

- \* Channel 1: Centered at 2.412 GHz.
- \* Channel 6: Centered at 2.437 GHz.
- \* Channel 11: Centered at 2.462 GHz.

Given the options provided, option C (1 and 5) is the closest to a pair of non-overlapping channels, although in practice, channel 5 would still cause some interference with channel 1 due to the 22 MHz spread. The ideal choice for non-overlapping channels would be any two channels among 1, 6, and 11, but this is not an option provided. Therefore, within the given options, 1 and 5 are the best choice, understanding that in a real-world scenario, 1 and 6 or 6 and 11 would be preferred to avoid overlap.

References:

- \* CWNA Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109, by David D. Coleman and David A. Westcott.
- \* Understanding 2.4 GHz channel arrangement and interference patterns in 802.11 wireless networks.

## NEW QUESTION # 121

Return Loss is the decrease of forward energy in a system when some of the power is being reflected back toward the transmitter. What will cause high return loss in an RF transmission system, including the radio, cables, connectors and antenna?

- A. A significant impedance mismatch between components in the RF system
- B. A Voltage Standing Wave Ratio (VSWR) of 1:1
- C. The use of 50 ohm cables longer than one meter in the RF system
- D. High output power at the transmitter and use of a low-gain antenna

**Answer: A**

Explanation:

Return loss is a measure of how well the components of an RF system are matched in terms of their impedance. Impedance is the opposition to the flow of alternating current in a circuit, and it depends on the frequency, resistance, capacitance, and inductance of the components. When the impedance of the source, the transmission line, and the load are not equal, some of the power is reflected back to the source, causing a loss of forward power. This loss is expressed in decibels (dB) as return loss. The higher the return loss, the lower the reflection and the better the impedance matching. Conversely, the lower the return loss, the higher the reflection and the worse the impedance matching.

VSWR (Voltage Standing Wave Ratio) is another way of expressing the same concept. It is the ratio of the maximum voltage to the minimum voltage along a transmission line due to the interference of the incident and reflected waves. A VSWR of 1:1 means that there is no reflection and perfect impedance matching. A VSWR higher than 1:1 means that there is some reflection and impedance mismatch. The higher the VSWR, the higher the reflection and the lower the return loss.

Therefore, a significant impedance mismatch between components in an RF system will cause high reflection, high VSWR, and low return loss.

## NEW QUESTION # 122

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-109 Study Guide, Chapter 7: Power over Ethernet (PoE), page 289.

**NEW QUESTION # 123**

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