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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>RF Validation and WLAN remediation: This topic covers RF interference, WLAN performance, the basic features of validation tools, and common wireless issues.</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>
Topic 4	<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>

- 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.

## &gt;&gt; New CWNA-109 Exam Question &lt;&lt;

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### CWNP Wireless Network Administrator (CWNA) Sample Questions (Q91-Q96):

#### NEW QUESTION # 91

What statement is true concerning the use of Orthogonal Frequency Division Multiplexing (OFDM) modulation method in IEEE 802.11 WLANs?

- A. OFDM was used by Frequency Hopping Spread Spectrum (FHSS) PHY devices.
- **B. OFDM was first introduced in 802.11a and is used by the ERP, HT and VHT PHYs as well.**
- C. OFDM implements BPSK modulation to allow for data rates up to 7 Gbps.
- D. OFDM modulation is used only in 5 GHz 802.11 transmissions.

#### Answer: B

##### Explanation:

OFDM is a modulation method that divides the channel bandwidth into multiple subcarriers, each carrying a single data symbol. This allows for higher data rates and more robust transmissions in multipath environments.

OFDM was first introduced in the 802.11a standard, which operates in the 5 GHz band and supports data rates up to 54 Mbps.

Later, the 802.11g standard adopted OFDM for the 2.4 GHz band, and the 802.11n and

802.11ac standards enhanced OFDM with features such as MIMO (Multiple Input Multiple Output), channel bonding, and higher-order modulation schemes to achieve data rates up to 600 Mbps and 6.9 Gbps, respectively. These standards are collectively known as the ERP (Extended Rate PHY), HT (High Throughput), and VHT (Very High Throughput) PHYs. References: [CWNA-109 Study Guide], Chapter 4:

Radio Frequency Signal and Antenna Concepts, page 163; [CWNA-109 Study Guide], Chapter 4: Radio Frequency Signal and Antenna Concepts, page 157.

#### NEW QUESTION # 92

You recently purchased four laptops containing dual-band 802.11ac adapters. The laptops can connect to your 2.4 GHz network, but they cannot connect to the 5 GHz network. The laptops do not show the 5 GHz SSIDs, which are different than the 2.4 GHz SSIDs. Existing devices can connect to the 5 GHz SSIDs with no difficulty. What is the likely problem?

- A. Interference from non-Wi-Fi sources
- **B. Faulty drivers**
- C. DoS attack
- D. Interference from other WLANs

#### Answer: B

##### Explanation:

The likely problem that causes this scenario is faulty drivers. Drivers are software components that enable the communication between the operating system and the hardware devices, such as the wireless adapters. Faulty drivers can cause various issues with the wireless connectivity, such as not detecting or connecting to certain networks, dropping connections, or reducing performance. Faulty drivers can be caused by corrupted files, outdated versions, incompatible settings, or hardware defects. To fix faulty drivers,

you can try to update, reinstall, or roll back the drivers, or contact the manufacturer for support. Interference from non-Wi-Fi sources, DoS attack, or interference from other WLANs are not likely to cause this scenario, as they would affect all devices in the same area, not just the new laptops. References: [CWNP Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 562; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 532.

#### NEW QUESTION # 93

You have implemented an 802.11ax WLAN for a customer. All APs are four stream HE APs. The customer states that it is essential that most of the clients can use the OFDMA modulation scheme. What do you tell the customer?

- A. OFDMA is an optional feature of 802.11ax and most APs don't even support it
- **B. The clients that must support OFDMA must also be upgraded to 802.11ax**
- C. If the devices support 802.11ac, they can be updated to support OFDMA through driver upgrades
- D. All 5 GHz PHYs use OFDM modulation, so you will achieve OFDMA everywhere in 5 GHz

**Answer: B**

Explanation:

OFDMA is a new modulation scheme introduced in 802.11ax that allows multiple users to share the same channel by dividing it into smaller subchannels called resource units (RUs). This improves the efficiency and capacity of the WLAN by reducing contention and overhead. However, to use OFDMA, both the AP and the client must support 802.11ax and negotiate the parameters of the subchannel allocation. Therefore, the customer needs to upgrade the clients that require OFDMA to 802.11ax devices<sup>12</sup>. The other options are not correct because they do not reflect the reality of OFDMA. Option B is incorrect because OFDMA is a mandatory feature of 802.11ax for both downlink and uplink transmissions, and all 802.11ax APs must support it<sup>1</sup>. Option C is incorrect because OFDM and OFDMA are different modulation schemes, and OFDM does not allow multiple users to share the same channel. Option D is incorrect because 802.11ac devices cannot support OFDMA through driver upgrades, as they lack the hardware and firmware capabilities to do so<sup>2</sup>. References: 1: CWNA-109 Official Study Guide, page 144 2: OFDMA

#### NEW QUESTION # 94

You have received a report of poor wireless connections on the third floor of a building under your administration. Three individuals have reported the problem. Apparently, the connections are reporting a strong signal, but the users cannot access the Internet. With the problem identified, what is the next logical step in the troubleshooting process?

- A. Create a plan of action or escalate the problem
- B. Verify the solution
- **C. Discover the scale of the problem**
- D. Perform corrective actions

**Answer: C**

Explanation:

Discovering the scale of the problem is the next logical step in the troubleshooting process after identifying the problem of poor wireless connections on the third floor of a building under your administration.

Troubleshooting is a systematic process of finding and resolving problems or issues in a network or a system.

Troubleshooting usually follows a general methodology that consists of several steps or phases, such as:

- \* Identifying the problem: This step involves defining and describing the problem clearly and accurately based on the symptoms and evidence observed or reported by users or administrators. For example, in this case, the problem is that three individuals have reported poor wireless connections on the third floor of a building.
- \* Discovering the scale of the problem: This step involves determining how widespread and severe the problem is by gathering more information and data from different sources and perspectives. For example, in this case, this step could involve checking if other users or devices on the third floor or other floors are experiencing similar issues, verifying if there are any changes or updates in the network configuration or environment that could affect the wireless connections, testing if there are any differences in performance or quality between different access points or channels on the third floor, etc.
- \* Performing corrective actions: This step involves applying possible solutions or fixes to resolve or mitigate the problem based on logical reasoning and analysis. For example, in this case, this step could involve adjusting the output power or channel assignment of the access points on the third floor, relocating or reorienting some access points or antennas to improve coverage or reduce interference, updating or replacing some faulty or outdated hardware or software components, etc.
- \* Verifying the solution: This step involves confirming that the problem is solved or improved by testing and monitoring the network

performance and user satisfaction after applying corrective actions. For example, in this case, this step could involve measuring and comparing the signal strength and throughput of wireless connections on the third floor before and after performing corrective actions, asking for feedback from users who reported poor wireless connections to see if their issues are resolved or reduced, etc.

\* Creating a plan of action or escalating the problem: This step involves documenting and reporting the problem and its solution for future reference and improvement purposes. It also involves deciding whether to close or escalate the problem depending on its status and severity. For example, in this case, this step could involve creating a report that summarizes what was done to troubleshoot and fix poor wireless connections on the third floor with relevant data and evidence to support it. It could also involve escalating poor wireless connections to higher-level administrators if they persist or worsen despite performing corrective actions.

References: 1, Chapter 12, page

### NEW QUESTION # 95

You have been tasked with creating a wireless link between two buildings on a single campus. The link must support at least 150 Mbps data rates. What kind of WLAN technology role should you deploy?

- A. WPAN
- B. IBSS
- C. Access BSS
- D. Wireless bridging

**Answer: D**

Explanation:

<https://www.wlanmall.com/what-is-a-wireless-bridge/>

Wireless bridging is a WLAN technology role that allows two or more networks to be connected wirelessly over a distance. A wireless bridge consists of two or more APs that are configured to operate in bridge mode and use directional antennas to establish a point-to-point or point-to-multipoint link. Wireless bridging can support high data rates and is suitable for scenarios where running cables is impractical or expensive. To create a wireless link between two buildings on a single campus that supports at least 150 Mbps data rates, wireless bridging is an appropriate solution<sup>678</sup>. References: CWNA-109 Study Guide, Chapter 6: Wireless LAN Devices and Topologies, page 271; CWNA-109 Study Guide, Chapter 6: Wireless LAN Devices and Topologies, page 265; Wi-Fi Wireless Bridging Explained.

### NEW QUESTION # 96

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