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CWNP CWNA-109 Exam

Certified Wireless Network Administrator

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Niemand will ein ganz ein leichtes Leben führen und in einer niedrigen Position wenig Gehalt beziehen. Eines Tages wird man vielleicht gekündigt oder in die Rente treten. Dieses Leben ist wirklich langweilig. Wollen Sie nicht ein vielfältiges Leben führen? Das macht nichts. Heute sage ich Ihnen eine Abkürzung zum Erfolg, nämlich, die CWNP CWNA-109 Zertifizierungsprüfung zu bestehen. Mit dem Zertifikat können Sie ein besseres Leben führen und ein exzellenter IT-Expert werden und von anderen akzeptiert werden. Die Schulungsunterlagen zur CWNP CWNA-109 Zertifizierungsprüfung von ITZert können ganz leicht Ihren Traum verwirklichen. Zögern Sie noch? Schicken Sie doch schnell Schulungsunterlagen zur CWNP CWNA-109 Zertifizierungsprüfung von ITZert in den Warenkorb.

CWNP CWNA-109 Prüfungsplan:

Thema	Einzelheiten
Thema 1	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.
Thema 2	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.

- 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.

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Während andere Leute in der U-Bahn erstarren, können Sie mit Pad die PDF Version von CWNP CWNA-109 Prüfungsunterlagen lesen. Während andere im Internet spielen, können Sie mit Online Test Engine der CWNP CWNA-109 trainieren. Wir glauben, dass so fleißig wie Sie sind, können Sie bestimmt in einer sehr kurzen Zeit die CWNP CWNA-109 Prüfung bestehen. Während andere noch über Ihre ausgezeichnete Erzeugnisse erstaunen, haben Sie wahrscheinlich ein wunderbare Arbeitsstelle bekommen.

CWNP Wireless Network Administrator (CWNA) CWNA-109 Prüfungsfragen mit Lösungen (Q92-Q97):

92. Frage

You are troubleshooting a client problem with a 2.4 GHz WLAN connection. The client is experiencing surprisingly low data rates during the work day. You analyze the workspace outside of business hours and detect a strong signal with a typical noise floor at the client location. During working hours, the user works with a laptop in the area and uses an external USB hard drive for continuous data access. The user also states that the laptop works as expected on her home network. The user working approximately 8 feet away from this client experiences no problems.

Based on this information, what is the likely cause of the problem?

- A. The AP is overloaded during the work day
- B. The laptop has a failing wireless adapter
- C. The external hard drive is USB 3.0 and is causing a significant increase in the noise floor when in use
- D. The drivers in the laptop are corrupt

Antwort: C

Begründung:

The likely cause of the problem is that the external hard drive is USB 3.0 and is causing a significant increase in the noise floor when in use. USB 3.0 devices are known to generate radio frequency interference (RFI) in the 2.4 GHz band due to their high data transfer rates and harmonics. This RFI can increase the noise floor and degrade the signal-to-noise ratio (SNR) of WLAN devices operating in the same band. This can result in lower data rates, reduced throughput, increased retransmissions, and poor performance. The problem may not occur outside of business hours or on the user's home network because of different usage patterns or environmental factors. References: [CWNP Certified Wireless Network Administrator Official StudyGuide: ExamCWNA-109], page 527; [CWNA: Certified Wireless Network Administrator Official Study Guide: ExamCWNA-109], page 497.

93. Frage

Three access points are used within a facility. One access point is on channel 11 and the other two are on channel 1. The two access points using channel 1 are on either side of the access point using channel 11 and sufficiently apart so that they do not interfere with each other when they transmit frames. Assuming no other APs are in the vicinity, is CCI still a possibility in this network and why?

- A. No, because the APs are far enough apart that no CCI will occur.
- B. No, because CCI only occurs in the 5 GHz frequency band.
- C. Yes, because channel 11 loops around and causes CCI with channel 1.
- D. Yes, because the client devices connected to one of the channel 1 APs will transmit frames that reach the other channel 1 AP as well as clients connected to the other channel 1 AP.

Antwort: D

Begründung:

CCI is still a possibility in this network because the client devices connected to one of the channel 1 APs will transmit frames that

reach the other channel 1 AP as well as clients connected to the other channel 1 AP. CCI stands for co-channel interference, which is a type of interference that occurs when two or more devices transmit on the same channel within range of each other. CCI reduces performance and capacity because it causes contention and collisions on the wireless medium, which leads to retransmissions and delays. CCI can be mitigated by increasing physical separation between devices using the same channel or by reducing transmit power levels to limit coverage area. In this scenario, three access points are used within a facility.

One access point is on channel 11 and the other two are on channel 1. The two access points using channel 1 are on either side of the access point using channel 11 and sufficiently apart so that they do not interfere with each other when they transmit frames.

However, this does not prevent CCI from occurring between their client devices that are connected on channel 1. For example, if a client device connected to one of the channel

1 APs sends a frame to another device on the wired network or on another wireless network (such as an Internet server or a VoIP phone), that frame will be heard by both channel 1 APs as well as any other client devices connected to either of them on channel 1. This will cause CCI because these devices will have to wait for the channel to be clear before they can transmit their own frames.

The answer that CCI only occurs in the

5 GHz frequency band is incorrect; CCI can occur in any frequency band where devices use the same channel.

The answer that channel 11 loops around and causes CCI with channel 1 is also incorrect; channel 11 does not loop around and it operates in a different frequency band than channel 1. References: CWNA-109 Study Guide, Chapter 5: Radio Frequency Signal and Antenna Concepts, page 147

94. Frage

Three access points are used within a facility. One access point is on channel 11 and the other two are on channel 1. The two access points using channel 1 are on either side of the access point using channel 11 and sufficiently apart so that they do not interfere with each other when they transmit frames. Assuming no other APs are in the vicinity, is CCI still a possibility in this network and why?

- A. No, because the APs are far enough apart that no CCI will occur.
- B. No, because CCI only occurs in the 5 GHz frequency band.
- C. Yes, because channel 11 loops around and causes CCI with channel 1.
- **D. Yes, because the client devices connected to one of the channel 1 APs will transmit frames that reach the other channel 1 AP as well as clients connected to the other channel 1 AP.**

Antwort: D

Begründung:

CCI is still a possibility in this network because the client devices connected to one of the channel 1 APs will transmit frames that reach the other channel 1 AP as well as clients connected to the other channel 1 AP. CCI stands for co-channel interference, which is a type of interference that occurs when two or more devices transmit on the same channel within range of each other. CCI reduces performance and capacity because it causes contention and collisions on the wireless medium, which leads to retransmissions and delays. CCI can be mitigated by increasing physical separation between devices using the same channel or by reducing transmit power levels to limit coverage area. In this scenario, three access points are used within a facility. One access point is on channel 11 and the other two are on channel 1. The two access points using channel 1 are on either side of the access point using channel 11 and sufficiently apart so that they do not interfere with each other when they transmit frames. However, this does not prevent CCI from occurring between their client devices that are connected on channel 1. For example, if a client device connected to one of the channel 1 APs sends a frame to another device on the wired network or on another wireless network (such as an Internet server or a VoIP phone), that frame will be heard by both channel 1 APs as well as any other client devices connected to either of them on channel 1. This will cause CCI because these devices will have to wait for the channel to be clear before they can transmit their own frames. The answer that CCI only occurs in the 5 GHz frequency band is incorrect; CCI can occur in any frequency band where devices use the same channel. The answer that channel 11 loops around and causes CCI with channel 1 is also incorrect; channel 11 does not loop around and it operates in a different frequency band than channel 1. References: CWNA-109 Study Guide, Chapter 5:

Radio Frequency Signal and Antenna Concepts, page 147

95. Frage

You are using a tool that allows you to see signal strength for all Aps in the area with a visual representation.

It shows you SSIDs available and the security settings for each SSID. It allows you to filter by frequency band to see only 2.4 GHz networks or only 5 GHz networks. No additional features are available.

What kind of application is described?

- **A. WLAN scanner tool**
- B. Spectrum analyzer

- C. Protocol analyzer
- D. Site survey utility

Antwort: A

Begründung:

The tool described is a WLAN (Wireless Local Area Network) scanner tool. WLAN scanner tools are designed to provide information about the wireless networks in a given area, including:

* Signal Strength: They show the signal strength of all access points (APs) in the vicinity, which is crucial for understanding the coverage area and potential interference.

* SSID Visualization: These tools display the SSIDs (Service Set Identifiers) of available networks, allowing users to identify different wireless networks easily.

* Security Settings Information: WLAN scanner tools often show the type of security implemented on each network, such as WPA2, WEP, etc.

* Frequency Band Filtering: They allow users to filter and view networks based on the frequency band (2.4 GHz or 5 GHz), which is useful for analyzing network distribution and planning.

While protocol analyzers, site survey utilities, and spectrum analyzers are also used in wireless networking, their functions are distinct from what is described:

* Protocol Analyzers are more sophisticated and are used to capture and analyze network traffic.

* Site Survey Utilities are used to map signal coverage and plan network layouts, often with more advanced features for detailed site surveys.

* Spectrum Analyzers provide a detailed view of the frequency spectrum and non-Wi-Fi interference but don't typically focus on SSIDs or security settings.

Thus, the correct answer is D, a WLAN scanner tool, based on the functionalities described.

References:

CWNA Certified Wireless Network Administrator Official Study Guide: Exam PW0-105, by David D.

Coleman and David A. Westcott.

Tools and techniques for wireless network analysis and troubleshooting.

96. Frage

You are installing an AP to be used by 27 laptops. All laptops will connect on the 5 GHz frequency band. A neighbor network uses channels 1 and 6. What channel should be used for this AP and why?

- A. Channel 1, because it is best to use the channel with the lowest frequency
- B. Channel 11, because channels 1 and 6 are in use nearby
- **C. A 5 GHz channel, because channels 1 and 6 are 2.4 GHz channels they have no impact on the decision**
- D. Channel 6, because it is always best to use this channel

Antwort: C

Begründung:

A 5 GHz channel should be used for this AP because channels 1 and 6 are 2.4 GHz channels and they have no impact on the decision. The 5 GHz frequency band offers more non-overlapping channels than the 2.4 GHz frequency band, which reduces interference and improves performance. The 5 GHz frequency band also supports higher data rates and wider channel bandwidths than the 2.4 GHz frequency band, which increases capacity and throughput. The 5 GHz frequency band also has less interference from other devices and sources than the 2.4 GHz frequency band, which enhances reliability and quality of service. Therefore, it is recommended to use the 5 GHz frequency band for WLANs whenever possible. Channels 1 and 6 are two of the three non-overlapping channels in the 2.4 GHz frequency band (the other one is channel 11). They are used by a neighbor network in this scenario, but they do not affect the channel selection for this AP because they operate in a different frequency band than the 5 GHz frequency band. Channel 6 is not always best to use; it depends on the interference and congestion level in the environment. Channel 1 is not best to use because it has a lower frequency than channel 6; frequency does not determine channel quality or performance. Channel 11 is not best to use because it is also a 2.4 GHz channel and it may interfere with channels 1 and 6. References: CWNA-109 Study Guide, Chapter 4: Antenna Systems and Radio Frequency (RF) Components, page 113

97. Frage

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Die Feedbacks von den IT-Fachleuten, die CWNP CWNA-109 Zertifizierungsprüfung erfolgreich bestanden haben, haben bewiesen, dass ihren Erfolg ITZert beizumessen ist. Die Fragen und Antworten zur CWNP CWNA-109 Zertifizierungsprüfung

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