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**CWDP-303**

**Certified Wireless Design Professional**



**Version 1.0**

## Exam A

### QUESTION 1

When designing a WLAN to support voice in a large office, which design element is of the highest concern for performance?

- A. Frequency Selection
- B. Roaming
- C. AP vendor
- D. Band steering

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 2

What is the minimum PoE budget needed on a switch to support 6 (six) APs that can only be powered using IEEE 802.3at if no other details are provided?

- A. 320 W
- B. 60 W
- C. 180 W
- D. 240 W

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 3** In high-density environments, such as stadiums and convention centers, what extra factor has to be taken into account that can attenuate Wi-Fi signals when these environments are having an event?

- A. Thick walls
- B. I-Beams
- C. People
- D. Fire doors

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 4** What document is typically created to launch a project?

- A. Bill of Materials
- B. Project Charter
- C. Work Breakdown Structure
- D. Budget

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 5** Your new customer is concerned about maintaining privacy for their proprietary information when you conduct information gathering for their WLAN design. Which document can you use to directly address their concern?

- A. NDA
- B. SoW
- C. BoM
- D. Hold Harmless

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 6** What metric implements the simplest algorithm and lowest accuracy in networks requiring locations?

- A. Angle of Arrival (AoA)
- B. Time of Arrival (ToA)
- C. Time Difference of Arrival (TDoA)
- D. Received Signal Strength Indicator (RSSI)

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.ijert.org/research/different-approaches-of-angle-of-arrival-techniques-in-wireless-sensor-networks-IJERTV2IS2346.pdf>

**QUESTION 7**

Your customer is using PSK as their only authentication. They have an industry requirement to move to a stronger solution. Your recommendation is to move to a certificate-based type of authentication where both the client and server require certificates. Which EAP type would be the best fit?

- A. EAP-FAST
- B. EAP-TTLS
- C. EAP-TLS
- D. PEAP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.intel.com/content/www/us/en/support/articles/000006999/network-and-i-o/wireless-networking.html>

**QUESTION 8** A company wants to connect its headquarters to its remote office that is 13 kilometers away using a wireless bridge. What requirement must not be forgotten by their Wireless Engineer when considering the Fresnel Zone?

- A. Earth bulge
- B. Antenna gain
- C. FSPL
- D. Receive sensitivity

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <http://www.zytrax.com/tech/wireless/fresnel.htm>

**QUESTION 9**

You are conducting a physical site survey where heavy machinery is repaired. What is a common item required specifically for this type of survey?

- A. Personal Protective Equipment (PPE)
- B. Low gain antennas
- C. Low power APs
- D. Indoor APs

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 10**

A business traveler from North America is in Europe. The hotel only provides coverage in 2.4 GHz. The traveler connects to the hotel's SSID and notices an AP in the hotel room. However, the laptop reports a very low RSSI when connected. The traveler does not have the same problem when connecting in the lobby. What would be the most likely cause of the low RSSI in the hotel room?

- A. The AP in the room is using ZigBee instead of Wi-Fi.
- B. The AP in the room is transmitting on channel 13 and the traveler associated to a non-channel 13 AP located elsewhere.
- C. The switchport that the AP is connected to is only capable of transmitting at 10 Mbps.
- D. The AP in the room is using Bluetooth instead of Wi-Fi.



**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 11**

A museum wants to offer Wi-Fi to its visitors. One of their requirements is to have the APs blend into the design of the museum. What should you do to meet this requirement?

- A. Lock the AP inside of a metal box
- B. Place the APs in between walls and I-beams
- C. Use an 802.11b AP, so it looks old enough to be in a museum
- D. Use a plastic cover that could blend in with the environment

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: [https://www.webmasterworld.com/webmaster\\_hardware/4263823.htm](https://www.webmasterworld.com/webmaster_hardware/4263823.htm)

**QUESTION 12** An engineering firm just upgraded their WLAN from nine 802.11n APS to nine 802.11ac APs. After this upgrade, they did not see any improvement in throughput. What is the most likely cause of this result?

- A. APs are transmitting at a low transmit power
- B. The clients were not upgraded
- C. APs are mounted on the wall

D. The APs are still using the 5 GHz lower band

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

You and 10 other people are connected to a public hotspot. You issue a ping sweep on the network, but you can't find any devices on the same subnet as yours. What feature might be enabled on the WLAN infrastructure that is preventing you from communicating with other devices on that subnet?

- A. Peer-to-peer blocking
- B. OSPF external routes
- C. Band steering
- D. Load balancing

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

During an RFP analysis, one of the vendors mentioned that you'll need to upgrade your Gigabit Ethernet switches to MultiGig switches to ensure support for 802.11ac and 802.11ax, which both offer data rates over 1Gbps. Why is this not sound advice?

- A. Because neither of the technologies support data rates over 1Gbps
- B. Because 802.11ax doesn't support channel bonding
- C. Management overhead that is normal in WLANs will reduce the throughput of the client devices
- D. Because 802.11ac only supports one spatial stream

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 15

A customer is acquiring a new VoWLAN system to replace their existing wired phone system. When reading about his system's requirements, you learned that it requires 25 db of SNR to work as expected. After surveying the environment, you discovered that the noise floor is -88 dBm. What should be the minimum RSSI value to meet the system's requirements?

- A. -70 dBm
- B. -67 dBm
- C. -65 dBm
- D. -63 dBm

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 16

You're about to deploy an Enterprise-class VoWLAN infrastructure. You need to ensure that QoS is properly configured throughout the network. What Access Category (AC) should voice frames/packets use?

- A. AC\_VI
- B. AC\_VO
- C. AC\_BE
- D. AC\_BK

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://support.huawei.com/enterprise/docinforeader!loadDocument1.action?contentId=DOC1000019455&partNo=10022>

#### QUESTION 17

After importing a floor plan to a predictive design tool, what should be done prior to adding APs, antennas and attenuators (e.g., walls)?

- A. Set the transmit power for all APs
- B. Add pictures of the environment
- C. Nothing; just begin by adding APs, antenna and attenuators
- D. Calibrate the floor plan to increase accuracy

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 18

Your customer's 802.11n laptops are not able to see the SSID in the 5 GHz band in the conference room. When doing a walkthrough using one of these laptops, you confirm that it is unable to see the SSID in the 5 GHz band in the conference room. When using your own 802.11 ac laptop, you're able to see the SSID. What is the most likely cause of this problem?

- A. The AP is configured to use channel 36
- B. The customer laptop does not support Transmit Beamforming
- C. The AP is on channel 144
- D. Their laptops are SISO clients

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19** When designing a static channel plan for an office using voice devices near an airport, which range of channels should be avoided to ensure optimal performance when implemented?

- A. 36-40
- B. 44-48
- C. 116-124
- D. 1-11

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 20** What is the most suitable antenna option to be used when designing a WLAN infrastructure with APs mounted on a ceiling with a height of more than 20 feet and having all of the client stations used from the floor?

- A. Patch
- B. Dish
- C. Grid
- D. Low-gain dipole

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 21** When using a predictive design tool, you have selected APs with an antenna gain 3 dBi and set the transmit power of the predicted APs to 25 mW. What should be EIRP of the APs in the design?

- A. 11 dBm
- B. 6.25 mW
- C. 125 mW
- D. 17 dBm

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

Switches and APs have already been chosen by your customer. All switches support 802.3bz MultiGig interfaces and APs are 4x4:4 802.11ac wave 2 capable of using dual-5GHz and have one MultiGig interface. Some cable drops for the APs will run for more than 180.5 feet (or 55 meters). To support MultiGig, what is the best choice of cabling?

- A. Cat-5
- B. Cat-6
- C. Cat-5e
- D. Cat-6a

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 23**

When surveying an existing WLAN infrastructure for a possible redesign, you use two Wi-Fi USB adapters to collect RSSI data and two USB spectrum analysis adapters to collect RF spectrum data. Since your laptop doesn't have enough USB ports, you use a 4-port powered USB 3.0 hub. What issues could be caused by the use of USB 3.0 that will impact your site survey?

- A. It does not give you enough bandwidth to collect data coming from all of the adapters.
- B. It does not give you enough power for all four of your adapters.
- C. It generates noise in the 2.4 GHz band, giving you a false perception of the noise floor.
- D. It generates noise in the 5 GHz band, giving you a false perception of the noise floor.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://support.ekahau.com/hc/en-us/articles/235437007-USB-3-0-Causing-High-Noise-Floor-and-Its-Impact-on-Site-Surveys>

**QUESTION 24**

What is the most cost-effective way to accurately measure the height of a ceiling when ladder use is not allowed?

- A. Estimate the height based on known object sizes
- B. Gather measurements from other objects and do the math
- C. Rent a lift-cart to lift you up to the ceiling
- D. Use a laser measure to measure the distance from the floor to the ceiling

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 25**

You performed a site survey with two USB Wi-Fi adapters using a special driver written for the site survey software. After deployment, you realized that the client devices used by your customer are getting lower RSSI values than that shown during your site survey. What is the most likely reason for this result?

- A. USB Wi-Fi adapters designed for site surveys may have better sensitivity than regular Wi-Fi cards installed in client devices.
- B. The transmit power on the APs is higher than needed.
- C. Regular Wi-Fi cards installed in client devices do not support the same protocols as survey adapters.
- D. USB Wi-Fi adapters have a greater sensitivity than internal Wi-Fi adapters.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 26** When performing an active site survey in an existing WLAN infrastructure, in addition to gathering throughput data, what other important function will you typically be testing at the same time?

- A. Application filtering
- B. Internet bandwidth
- C. Roaming
- D. ACL configuration

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 27**

Why should band steering algorithms allow stations to connect to the 2.4 GHz band after some number of ignored Probe Requests?

- A. Because the FCC requires it.
- B. Because some clients are persistent clients that will not move on to the 5 GHz band.
- C. Because the 802.11 standard requires it.
- D. Because the AP will experience a buffer overflow if they do not eventually respond with a Probe Response.

**Correct Answer:** B

**Section:** (none)

**Explanation**



**Explanation/Reference:**

**QUESTION 28**

After designing a WLAN infrastructure using predictive design software. What's the best way to validate the predictive design in the physical space before deployment, if time and budget allow for it?

- A. Deploy all of the APs as they're shown in the predictive design and perform an active site survey.
- B. Deploy all of the APs as they're shown in the predictive design and perform a passive site survey.
- C. Use a client device positioned where the APs will be installed and measure the signal from the client device.
- D. Perform an AP-on-a-Stick survey using AP locations based upon the predictive design to confirm each AP's placement.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://vectorusa.com/steps-to-designing-and-deploying-wireless-lan/>

**QUESTION 29** Your customer requires a security solution in which client credentials are used and the authentication server must have a certificate with optional client certificate use. Which EAP method would be the best fit for their requirement?

- A. EAP-FAST
- B. EAP-TTLS
- C. EAP-TLS
- D. LEAP

**Correct Answer:** C

**Section:** (none)

**Explanation**



**Explanation/Reference:**

Reference: <https://support.microsoft.com/en-gb/help/814394/certificate-requirements-when-you-use-eap-tls-or-peap-with-eap-tls>

**QUESTION 30**

Your customer requires fast secure roaming. Which two types of roaming are specified in 802.11-2016 FT roaming that will help meet this goal?

- A. Over-the-Air and Over-the-DS
- B. Over-the-Air and Over-the-Wire
- C. FT and OKC
- D. FT and TKIP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 31** What advantage provided by 802.11n and 802.11ac is not usable in 1X1:1 low-end client devices?

- A. Channel bonding
- B. MCS data rates
- C. Maximal Ratio Combining
- D. Mandatory data rates

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 32** When deploying APs outdoors, what additional component needs to be used that is not needed indoors?

- A. Antennas
- B. NEMA enclosures
- C. Ethernet cables
- D. PoE

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 33**

Which document provided to your customer should include all devices and parts that are going to be used during the deployment of their WLAN infrastructure?

- A. SoW
- B. BoM
- C. Design report
- D. Project plan

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://searcherp.techtarget.com/definition/bill-of-materials-BoM>

**QUESTION 34** What limitation exists when WMM is not enabled on an 802.11n WLAN?

- A. 802.11 QoS will not be available
- B. The maximum channel-width will be 20MHz
- C. EDCA values will change
- D. Only two ACs will be available

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://mrnciew.com/2013/07/30/wmm-qos-profile/>

**QUESTION 35**

Using a SCA means that all APs will be using the same channel in a given layer. How is the AP with which the client associates determined?

- A. All APs share a virtual IP address. A controller will tell the closest AP to the client to communicate with it, since it has a greater RSSI from the client.
- B. All APs share a virtual Multicast Address. A controller will tell the closest AP to the client to communicate with it, since it has a greater RSSI from the client.
- C. All APs share a virtual BSSID. A controller will tell the closest AP to the client to communicate with it, since it has a greater RSSI from the client.
- D. The client selects the AP based on a known set of MAC to BSSID mappings stored in the clients authorized SSID listing.



**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 36** What service must be implemented on your customers' network to authenticate users against an LDAP database prior to access to the WLAN infrastructure being granted?

- A. NTP
- B. RADIUS
- C. SFTP
- D. TLS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/config-guide/b\\_cg85/wlan\\_security.pdf](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/config-guide/b_cg85/wlan_security.pdf)

**QUESTION 37**

What is the best method of gathering attenuation measurements from any building materials or objects?

- A. After measuring the RSSI in free space 5 meters (16.5 feet) apart, put an AP 4 meters (13 feet) away from the wall or object on one side and your measuring device 0.67 meters (2 feet) away from the wall or object on the other side. Take measurement and compare the difference.
- B. Use the pre-built attenuation values in the predictive design tool.
- C. After measuring the RSSI in free space 1 meter (3 feet) apart, put an AP 0.32 meters (1 feet) away from the wall or object on the other side. Take measurements and compare the difference.
- D. Look on the Internet for attenuation values for each one of the materials that might attenuate the Wi-Fi signal using the material provider's websites.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 38**

Which type of authentication and encryption method is mandatory for Voice Enterprise certified devices as specified by the Wi-Fi Alliance?

- A. WPA2/AES Personal
- B. WPA2/TKIP Enterprise
- C. WPA2/AES Enterprise
- D. WPA/TKIP Personal

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 39** What document should be created that provides instructions for install technicians to mount and configure APs?

- A. Hold Harmless
- B. Statement of Work
- C. Bill of Materials
- D. Physical installation guide

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 40**

In addition to a copy of your design, which tools should you use to ensure the installation team deploys APs where you have them designed to be located?

- A. GPS and a map
- B. RF spectrum analyzer and packet capturing software
- C. Ladder and a pen
- D. Camera and marking tools

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 41** When installing APs on high ceilings, what should be the most common PPE to be used?

- A. Hardhat, high visibility vest and body belt
- B. Glasses, gloves and jacket
- C. Clean suits, masks and glasses
- D. Clean suits, gloves and jacket

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 42**

You're preparing to perform a site survey for a company that processes meat. Some areas are restricted due to high-security. What do you have to do in order to proceed with the site survey?

- A. Gain appropriate access and clearance to perform the site survey.
- B. Gain meat processing access certification from the FDA.
- C. Ensure that you and your team are using food industry approved USB adapters for the survey.
- D. Just begin the survey, they will understand

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 43**

Which DHCP option, when required, should be configured and enabled to help APs locate their wireless LAN controller?

- A. 150
- B. 62
- C. 43
- D. 22

**Correct Answer:** C



**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-0/configuration/guide/c70/c70wlan.html>

**QUESTION 44**

When deploying a new WLAN infrastructure using PoE to power the APs, you realize that a known good AP is not powering up. You use the same cable to connect your laptop and connect without any trouble. What is the most likely reason the AP did not power up?

- A. Missing AP licenses in the controller
- B. Spanning-tree convergence
- C. Layer 3 routing
- D. Lack of PoE budget on the switch

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 45**

During your first pre-deployment meeting with the deployment team, you hand out the full design documentation to all of them. What's your primary goal during this meeting?

- A. To explain design decisions and ensure understanding of design documents.
- B. To discuss AP functionality.
- C. To explain how Wi-Fi works.
- D. To justify the budget.



**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 46** A controller-based WLAN infrastructure has its controller on a different subnet than its APs. What device must be used to enable any communication between the Controller and the APs?

- A. NTP server
- B. Router
- C. PoE Layer 2 switch
- D. Wireless bridge

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.speaknetworks.com/cisco-wireless-controller-configuration/>

**QUESTION 47** In what circumstance would you not enable DFS channels on a WLAN infrastructure?

- A. In any stadium
- B. In any office complex
- C. In an airport

D. In any home office

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://netbeez.net/blog/dfs-channels-wifi/>

#### QUESTION 48

Aesthetics are very important in some environments. What common installation technique can be used to best meet this requirement in a stadium?

- A. Painting to match team colors
- B. Using enclosures under the seats or on hand-rails
- C. Mounting on a non-fixed pole
- D. Mounting on the walls

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49** What kind of site survey helps you identify if roaming is working as designed?

- A. Passive
- B. Predictive
- C. Active
- D. Spectrum analysis walkthrough



**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://revolutionwifi.blogspot.com/2013/>

#### QUESTION 50

When doing some frame capturing over the air during a voice call, you realized that frames on the downlink (from the AP to the client) direction are not being transmitted with the correct UP value for voice frames, but on the uplink (from the client to the AP) direction are being transmitted correctly. What's the cause of this issue?

- A. Bad client driver
- B. AP is not receiving enough PoE, thus not using QoS features
- C. Somewhere on the wired network QoS markings aren't being trusted
- D. Faulty antenna on the AP

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 51

You are validating association capabilities from clients to an 802.1X/EAP secure SSID. The RADIUS server's IP address is 10.100.50.25 and the default RADIUS authentication port is used. When testing them, none of the clients are able to associate to the SSID. Troubleshooting the WLAN infrastructure, you found out that the server is up and the RADIUS service is up as well, but the authenticator is not able to communicate properly with the server. What's your next troubleshooting step?

- A. Verify that the shared secret between the authenticator and the RADIUS server is correct B. Reboot the clients
- C. Reboot the server
- D. Restart the RADIUS service

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 52

During lunch time in the break room of a company, Wi-Fi connectivity on the 2.4 GHz band is intermittent. Every other time of the day, it works fine. What's the likely cause of this issue?

- A. Employees are using their cell data instead of using the Wi-Fi
- B. The AP in the cafeteria keeps rebooting due to lack of PoE budget on the switch
- C. Toasters and ovens are heating up the air, raising the noise floor with the Wi-Fi on the 2.4 GHz band
- D. Microwaves in the cafeteria are interfering with the Wi-Fi on the 2.4 GHz band

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 53

After deploying a 5 GHz-only WLAN infrastructure in the USA, using 20 MHz channel-widths and all 25 available channels, one of the managers of the company brings his 802.11n tablet to the office to test the Guest SSID. While testing, there were several spots where we would get poor RSSI (below -80dBm) or none at all. You checked the WLAN infrastructure and all APs are up and running and you've validated coverage after deployment. What is causing this issue?

- A. His tablet doesn't support the 5 GHz band
- B. His tablet only supports a 40 MHz channel-width
- C. His tablet does not support one or more of the 5 GHz channels
- D. His tablet doesn't support MU-MIMO

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 54

After designing and deploying a WLAN infrastructure, you realized the CCI is causing poor performance in the 2.4 GHz band. Primarily, you've designed the WLAN for 5 GHz and 2.4 GHz as a best effort. You found out that the implementers didn't follow your guidelines when configuring the WLAN infrastructure. What can you do to minimize as much as possible the CCI impact in the 2.4 GHz band?

- A. Add more APs to the infrastructure
- B. Increase the transmit power on all APs
- C. Turn-off 2.4 GHz radios on some APs
- D. Use all channels available in the 2.4 GHz band

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 55**

You have performed a validation site survey after deploying a WLAN infrastructure that is an All-Wireless-Office. One specific application of your customer is experiencing delay when using the application after moving from wired connectivity. After your validation, you realized that all APs are using 80 MHz channel-widths instead of 20 MHz on the 5 GHz band, as it was designed. What can be done to resolve the delay on this application?

- A. APs should be using 160 MHz channel-widths to get more throughput
- B. Reconfigure to use 20 MHz channel-widths, so reuse of the frequency is more effective
- C. Power-off half of the APs to reduce CCI and keep 80 MHz channel-widths
- D. Add more APs using 80 MHz channel-widths

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 56** What are the deliverables to your customer after successfully implementing a WLAN infrastructure?

- A. Digital or physical assets, guides, floorplans and configuration documents
- B. Project Charter
- C. Facility blueprints
- D. Nothing is required. The implemented WLAN was deliverable

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 57**

Who should be in the final meeting from the customer-side after successfully implementing a WLAN infrastructure?

- A. CEO or CFO
- B. End-users
- C. The customer's customers
- D. Remote workers

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 58**

During a validation site survey, you realize that the installers mounted some of the APs above the ceiling. They said that this was a request from the building architect due to aesthetics constraints. During the requirements gathering, you weren't advised about any aesthetics constraints from the main stakeholder of the project. What should you do in this case?

- A. Advise the stakeholder that WLAN performance requirements will not be met and a new design process will be needed to meet the requirements.
- B. Leave it as it is and allow automatic channel management to correct any issues.
- C. Increase the output power on all APs by 6 dB immediately.
- D. Remove all external antennas and use only the internal antennas to reduce multipath.

**Correct Answer:** A





**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 59**

While performing a validation site survey, you realize that overlapping channels are being used on the 2.4 GHz band due to the automatic channel assignment algorithm of the WLAN infrastructure. What should you do to prevent this?

- A. Reconfigure the automatic channel assignment settings to use only channels 1, 6, and 11
- B. Purchase and deploy new APs from a different vendor
- C. Reconfigure the network to use static channel plans because automatic channel assignment algorithms are all broken
- D. Leave it as it is; sometimes using all 11 channels in 2.4 GHz gives the optimum performance result

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 60**

In a convention center, you have received complaints about the WLAN infrastructure. At this moment, there are only two APs in one auditorium. After analyzing the situation, you determined that there are more client devices than the infrastructure was designed for. There are only two APs to support more than 300 devices using the Wi-Fi at the same time. What should you do to make the Wi-Fi work as expected?

- A. Redesign the entire WLAN
- B. Quickly add more APs
- C. Upgrade the Ethernet connections to MultiGig
- D. Turn up the output power on the APs so that they can handle more clients

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**