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CWISA Certified Wireless IoT Solutions Administrator Study and Reference Guide



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## CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• <b>Planning Wireless Solutions:</b> This section of the exam measures the skills of IoT Solutions Architects and encompasses the planning phase of wireless IoT solutions. It involves identifying system requirements, including use cases, capacity needs, security requirements, and integration needs, while considering constraints such as budgetary, technical, and regulatory limitations. The domain includes selecting appropriate wireless solutions based on requirements, planning for technical needs, including LAN</li> <li>• <b>WAN networking and frequency coordination,</b> and understanding the capabilities of common wireless IoT solutions like Bluetooth, Zigbee, and LoRaWAN, along with location services and methods.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Wireless Technologies:</b> This section of the exam measures the skills of Wireless Architects and covers foundational knowledge of wireless IoT technologies and their applications. It includes maintaining awareness of emerging technologies through research, understanding common applications and their associated frequencies and protocols, and familiarity with key standards organizations like IEEE, IETF, and Wi-Fi Alliance. The domain also encompasses defining various wireless network types including WLAN, WPAN, and IoT implementations across industries, along with understanding the hardware and software components of IoT devices and gateways, covering processors, memory, radios, sensors, and operating systems.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Supporting Wireless Solutions:</b> This section of the exam measures the skills of Wireless Support Engineers and focuses on the ongoing administration and support of wireless solutions across various vertical markets. It involves administering solutions in healthcare, industrial, smart cities, retail, and other environments while troubleshooting common problems including interference, configuration issues, and hardware malfunctions. The domain includes determining the best use of scripting and programming solutions for IoT implementations, understanding data structures and APIs, and comprehending networking and security protocols. It also covers understanding application architectures and their impact on wireless solutions, including single-tier and multi-tier architectures, database systems, and application servers.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Implementing Wireless Solutions:</b> This section of the exam measures the skills of Wireless Implementation Specialists and covers the practical implementation of wireless IoT solutions. It involves understanding key issues related to automation, integration, monitoring, and management, and using best practices in implementation, including pilot testing, configuration, installation, and documentation. The domain includes validating implementations through testing and troubleshooting, performing installation procedures including equipment mounting and connectivity configuration, and implementing security solutions covering authentication, authorization, and encryption. It also encompasses knowledge transfer practice, including staff training and solution documentation.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Radio Frequency Communications:</b> This section of the exam measures the skills of RF Engineers and focuses on the fundamental principles of radio frequency communications. It involves explaining RF wave characteristics such as frequency, wavelength, and amplitude, and understanding behaviors like amplification, attenuation, and free space path loss. The domain covers describing modulation techniques including ASK, FSK, PSK, and QAM, and explaining the capabilities of RF components like radios, antennas, and cabling. It also includes describing the use and capabilities of different RF bands in terms of communication ranges and power levels.</li> </ul>

## CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q64-Q69):

#### NEW QUESTION # 64

What is an important feature of the PHP scripting language?

- A. It works in web applications and at the command line
- B. It only works on Linux systems
- C. It only works embedded in web applications
- D. It only works from the command line

**Answer: A**

Explanation:

PHP's Cross-Platform Nature: PHP originated for server-side web development, but also has a command-line interface (CLI) enabling its use for scripts and automation tasks.

#### NEW QUESTION # 65

What is a valid reason to continue using older wireless networking technologies?

- A. A requirement to support legacy devices
- B. The desire for faster communications
- C. The desire to support internal antennas
- D. The desire to use older encryption processes, which are faster regardless of the CPU implemented

**Answer: A**

Explanation:

Legacy Support: The primary reason to continue using older wireless technologies is the need to connect with devices that don't support newer standards (e.g., old sensors or equipment).

#### NEW QUESTION # 66

You are considering the implementation of a lab for testing wireless equipment. What is the primary benefit of such a lab? (Choose the single best answer.)

- A. Provides a failover environment for your production systems
- B. Provides a safe environment in which to develop practical skills and knowledge of a technology and to test the technology
- C. Provides for testing to determine how much RF exposure you can tolerate
- D. Provides a way to repurpose old hardware that is not ready for final removal

**Answer: B**

Explanation:

Lab Purpose: Wireless testing labs offer controlled settings to:

Skill Development: Hone practical understanding of wireless technologies without impacting production environments.

Experimentation: Safely test different configurations, compatibility, and potential issues.

Troubleshooting: Isolate problems, test solutions, and understand how equipment behaves in various scenarios.

#### NEW QUESTION # 67

What factor severely limits the range of systems operating in the 60GHz band?

- A. Solar Radiation
- B. Oxygen Fade
- C. Rain Fade
- D. Atmospheric Scattering

**Answer: B**

Explanation:

\* 60GHz Absorption: The 60GHz band experiences significant signal attenuation due to absorption by oxygen molecules in the atmosphere. This severely restricts the usable range of wireless systems operating in this frequency.

\* Why Other Options Don't Apply:

\* Atmospheric Scattering: Impacts longer wavelength transmissions, less significant at 60GHz.

\* Solar Radiation: Can cause interference on some frequencies, but not a primary range limitation at 60GHz.

\* Rain Fade: Primarily affects higher frequencies (above 10GHz), but its impact is less severe than oxygen absorption at 60GHz.

References:

60GHz Propagation Characteristics: Technical papers discussing oxygen absorption and its influence on range limitations.

Millimeter-wave (mmWave) Communication: Overviews highlighting the challenges and short-range applications of 60GHz systems.

### NEW QUESTION # 68

What consideration is found in PtMP systems that is not found in PtP systems?

- A. Frequency selection
- B. SINR optimization
- C. Airtime management
- D. Interference avoidance

**Answer: C**

Explanation:

\* PtMP (Point-to-Multipoint): A single access point (AP) communicates with multiple client devices.

This means the AP needs to manage how the available airtime is shared among those clients.

\* Airtime Fairness: Mechanisms are needed to ensure that:

\* Each client gets a fair chance to communicate

\* High-priority traffic isn't starved by low-priority traffic

\* PtP (Point-to-Point): A dedicated link only has two devices, eliminating the need for complex airtime management.

\* Considerations in Both: While interference, SINR, and frequency selection are important in both PtMP and PtP systems, the need for airtime management is unique to the multipoint scenario.

References:

Wireless Network Topologies (PtP vs. PtMP): Explanations of the differences in how communication is managed in each scenario.

TDMA (Time Division Multiple Access): A common airtime sharing method used in PtMP systems.

### NEW QUESTION # 69

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