

CWISA-103 - Certified Wireless IoT Solutions Administrator(2025 Edition) Updated Certification Dumps

CWNP CWISA-103 Exam

Certified Wireless IoT Solutions Administrator

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1 / 5

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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Wireless Technologies: 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.
Topic 2	<ul style="list-style-type: none"> • Planning Wireless Solutions: 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 • WAN networking and frequency coordination, and understanding the capabilities of common wireless IoT solutions like Bluetooth, Zigbee, and LoRaWAN, along with location services and methods.
Topic 3	<ul style="list-style-type: none"> • Implementing Wireless Solutions: 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.
Topic 4	<ul style="list-style-type: none"> • Supporting Wireless Solutions: 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.
Topic 5	<ul style="list-style-type: none"> • Radio Frequency Communications: 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.

CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q14-Q19):

NEW QUESTION # 14

As an RF signal propagates it becomes weaker as it gets farther away from the transmitter. What concept is described?

- A. Beamwidth
- **B. Free Space Path Loss**
- C. Diffraction
- D. RF latency

Answer: B

Explanation:

The concept described is Free Space Path Loss (FSPL). FSPL refers to the reduction in power density of an electromagnetic wave as it propagates through a clear, unobstructed path in free space. This weakening of the signal is due to the spreading of the wavefront as it travels, causing the power to be distributed over a larger area. The FSPL can be calculated using the Friis Transmission Equation, which shows that the received power decreases with the square of the distance from the transmitter. This concept is fundamental to understanding the behavior of RF signals in various communication systems, including wireless IoT, where the signal strength at the receiver is a critical factor for reliable data transmission.

References: The information provided aligns with the Friis Transmission Equation, which models how the power of an RF signal decreases with distance¹. Additionally, the concept of FSPL is a well-known phenomenon in RF propagation, affecting the design and optimization of wireless communication systems

NEW QUESTION # 15

What user authentication method is commonly used in guest Wi-Fi networks in the hospitality industry?

- A. NTLM
- B. Kerberos
- C. SIM cards
- **D. Captive portal**

Answer: D

Explanation:

Captive Portals for Guest Access: These are web pages that intercept users' requests before granting full internet access. They often require agreeing to terms, entering basic information, or viewing ads.

Hospitality Fit: Captive portals are simple to deploy, require minimal user setup, and provide control for the hospitality provider (e.g., usage limits).

NEW QUESTION # 16

What primary component is required to implement a wireless transceiver in a device?

- A. GPIO pins
- B. Flash memory
- C. SRAM
- **D. Radio**

Answer: D

Explanation:

Wireless Transceiver: A transceiver is a combination of a transmitter and receiver used for wireless communication.

Radio: The radio is the primary component responsible for:

Modulation: Encoding data onto a carrier wave.

Demodulation: Extracting data from a received signal.

Transmission/Reception: Handling the actual sending and receiving of modulated signals over the air.

NEW QUESTION # 17

Among these choices, what is the most common reason administrators use scripting during the deployment of a wireless solution?

- A. To reduce configuration errors
- B. To provide time for playing solitaire
- C. To increase the signal strength of the resulting wireless links
- D. To enhance the capabilities of the resulting solution

Answer: A

Explanation:

Automation for Consistency: Scripts eliminate the potential for human error during repetitive configuration tasks on multiple devices. This ensures uniformity across the wireless solution.

Speed and Efficiency: Scripts can be much faster than manual configuration, particularly in large deployments.

NEW QUESTION # 18

What part(s) of the OSI network model does the IETF primarily focus on for the development of standards?

- A. Physical Layer and above
- B. All layers
- C. Network Layer and above
- D. Data Link Layer

Answer: C

Explanation:

IETF's Focus: The Internet Engineering Task Force (IETF) primarily develops and standardizes internet protocols operating at the Network Layer (Layer 3) and above in the OSI model.

Key Protocols: Some prominent IETF-developed protocols include:

IP (Internet Protocol): Foundation of internet addressing and routing.

TCP (Transmission Control Protocol): Reliable, connection-oriented data transport.

UDP (User Datagram Protocol): Connectionless, best-effort data transport.

DNS (Domain Name System): Translates domain names into IP addresses.

HTTP (Hypertext Transfer Protocol): Web communication.

NEW QUESTION # 19

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