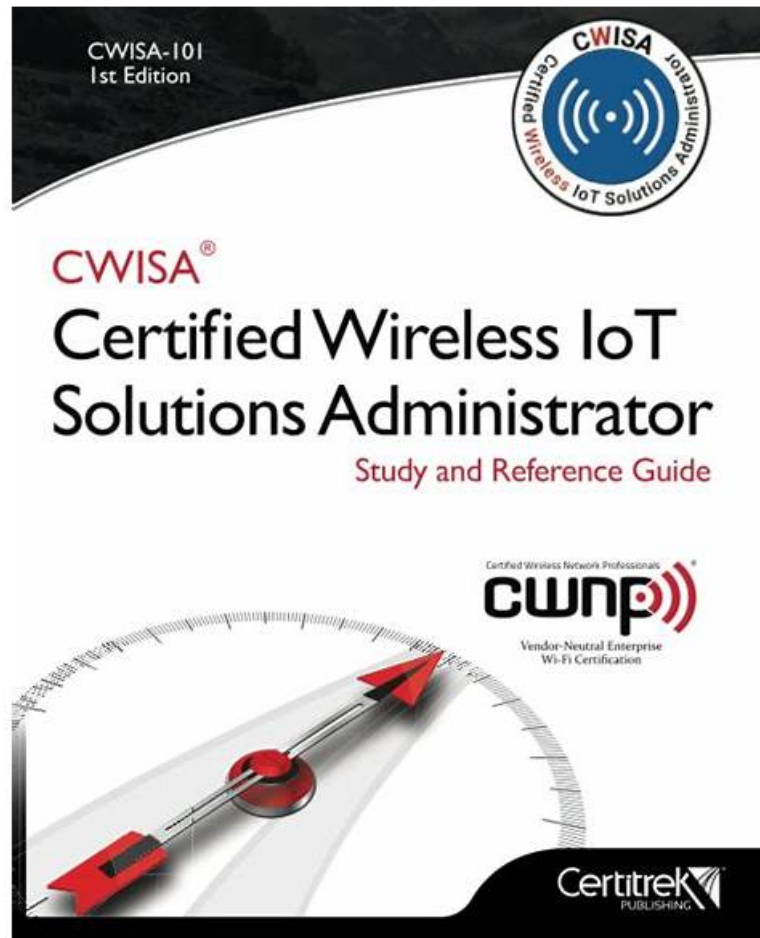


CWISA-103 - Certified Wireless IoT Solutions Administrator(2025 Edition) Useful Free Test Questions



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CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q57-Q62):

NEW QUESTION # 57

What process, used for security in wireless solutions, is defined as the encoding of information to prevent readability by unauthorized users?

- **A. Encryption**
- B. Access Control
- C. Authorization
- D. Authentication

Answer: A

Explanation:

* Encryption vs. Other Options:

* Access Control: Limits who can access data, but doesn't make it unreadable.

* Authentication: Validates user/device identity, but not focused on data confidentiality.

* Authorization: Determines the actions a user is allowed, separate from securing the data itself.

* How encryption works: Encryption uses algorithms and keys to turn plaintext into unreadable ciphertext. Only those with the correct key can decrypt it.

* Data in motion vs. data at rest: Encryption protects sensitive information both when transmitted over the wireless network and when stored on devices.

References:

Encryption standards and protocols: Resources on common wireless encryption types (WPA2, WPA3, TLS) and their implementation.

NEW QUESTION # 58

How is ASK modulation different from FSK modulation?

- A. FSK is more sensitive to noise than ASK
- B. ASK can carry more data than FSK
- C. ASK varies the amplitude of the signal while FSK shifts its frequency
- D. ASK does not work at high frequencies

Answer: C

Explanation:

* Key Modulation Differences:

* ASK (Amplitude Shift Keying): Digital data is represented by changes in the amplitude (strength) of a carrier wave.

* FSK (Frequency Shift Keying): Digital data is represented by changes in the frequency of a carrier wave.

References

* ASK: https://en.wikipedia.org/wiki/Amplitude-shift_keying

* FSK: https://en.wikipedia.org/wiki/Frequency-shift_keying

NEW QUESTION # 59

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

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

Answer: C

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.

References

* Transceiver: <https://en.wikipedia.org/wiki/Transceiver>

NEW QUESTION # 60

You are planning a wireless implementation. At what point should you begin to consider security requirements for the implementation?

- A. During hand-off to support
- B. In the acceptance testing phase
- C. In the planning phase

- D. In the implementation phase

Answer: C

Explanation:

- * Security by Design: Security should be a fundamental consideration from the initial planning stages of any wireless implementation. This ensures:
- * Risk Assessment: Identifying potential vulnerabilities early on.
- * Security Controls: Choosing appropriate encryption, authentication, and access control mechanisms.
- * Integration: Security measures are seamlessly woven into the system's architecture, not retrofitted later, which can be less effective.

NEW QUESTION # 61

What provides the security (encryption) in an HTTPS connection?

- A. SSL/TLS
- B. SNMPv3
- C. SSH
- D. IPSec

Answer: A

Explanation:

- * SSL/TLS Secures Web Traffic: HTTPS builds upon HTTP, adding the encryption provided by Secure Sockets Layer (SSL) or its successor, Transport Layer Security (TLS).
- * Other Protocols Have Different Purposes:
- * IPSec: Secures IP traffic at a network level, can be used alongside TLS.
- * SNMPv3: Management protocol, offers security features, but not the primary mechanism in HTTPS.
- * SSH: Secure remote shell, unrelated to web data encryption.

References:

TLS (and SSL): Explanations of their role in HTTPS and how they provide encryption for web communication.
 HTTPS Overview: Materials showing how TLS fits into the overall HTTPS architecture.

NEW QUESTION # 62

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