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## CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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 practices including staff training and solution documentation.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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</li> <li>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.</li> </ul>

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## CWISA-103 exam collection guarantee CWISA-103 Certified Wireless IoT Solutions Administrator(2025 Edition) exam success

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## CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q21-Q26):

### NEW QUESTION # 21

What best describes a proof-of-concept implementation?

- A. A demonstration provided by the manufacturer in their facility that shows the capabilities of the system
- B. A full-scale test deployment in the target environment for users to work with
- C. Testing for software bugs that might impact the end user
- D. A limited-scope prototype deployment in the target environment to test and demonstrate capabilities in the real world**

### Answer: D

Explanation:

Purpose of POC: A proof-of-concept (POC) validates the feasibility and potential value of a solution within its intended operational environment.

Scaling: POCs are small-scale, allowing for quicker and less costly testing before committing to a full-scale deployment.

Real-world Evaluation: Unlike manufacturer demos, a POC exposes the system to the unique variables (e.g., interference, usage patterns) present in the user's specific setting.

### NEW QUESTION # 22

What is an advantage of an overlay monitoring system for wireless networks as opposed to an Integrated monitoring system?

- A. An overlay solution is less expensive than an integrated solution
- B. An overlay solution does not require power provisioning
- C. An overlay solution collects less data so that reporting is more efficient
- D. An overlay solution functions without disrupting services provided by the wireless network**

### Answer: D

Explanation:

- \* Overlay vs. Integrated Monitoring:
- \* Overlay: A separate monitoring system independent of the primary wireless infrastructure.
- \* Integrated: Monitoring functions built into wireless access points or controllers.
- \* Overlay Advantage: Since the overlay system is separate, it doesn't add overhead or complexity to the core network, avoiding potential disruption of wireless services.

### NEW QUESTION # 23

What is most often used to track livestock on large farms and identify each animal individually?

- A. 802.11 wireless radios
- B. Photodiode sensors
- C. Thermistor sensors
- D. **RFID tags**

Answer: D

Explanation:

\* RFID for Livestock: Radio Frequency Identification (RFID) tags are the most widely used technology for livestock tracking and individual identification on large farms.

\* Benefits:

- \* Unique ID: Each RFID tag has a unique code.
- \* Data Storage: Some tags store information about the animal.
- \* Durability: Tags withstand outdoor conditions.
- \* Automated Reading: Tags can be scanned quickly.

References

\* RFID (General): [https://en.wikipedia.org/wiki/Radio-frequency\\_identification](https://en.wikipedia.org/wiki/Radio-frequency_identification)

### NEW QUESTION # 24

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

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

Answer: D

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 # 25

What is defined as the weakening of signal amplitude as the signal passes through a medium?

- A. **Attenuation**
- B. Scattering

- C. Reflection
- D. Diffraction

**Answer: A**

### Explanation:

\* Attenuation: Describes the progressive loss of signal strength as it travels through a medium (like air, cables, walls). It's caused by factors like absorption, distance, and obstacles.

### \* Other Phenomena:

\* Diffraction: Bending of waves around obstacles.

\* Reflection: Waves bouncing off surfaces.

\* **Scattering:** Waves dispersing in multiple directions.

## References

\* Attenuation: <https://en.wikipedia.org/wiki/Attenuation>

## NEW QUESTION # 26

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