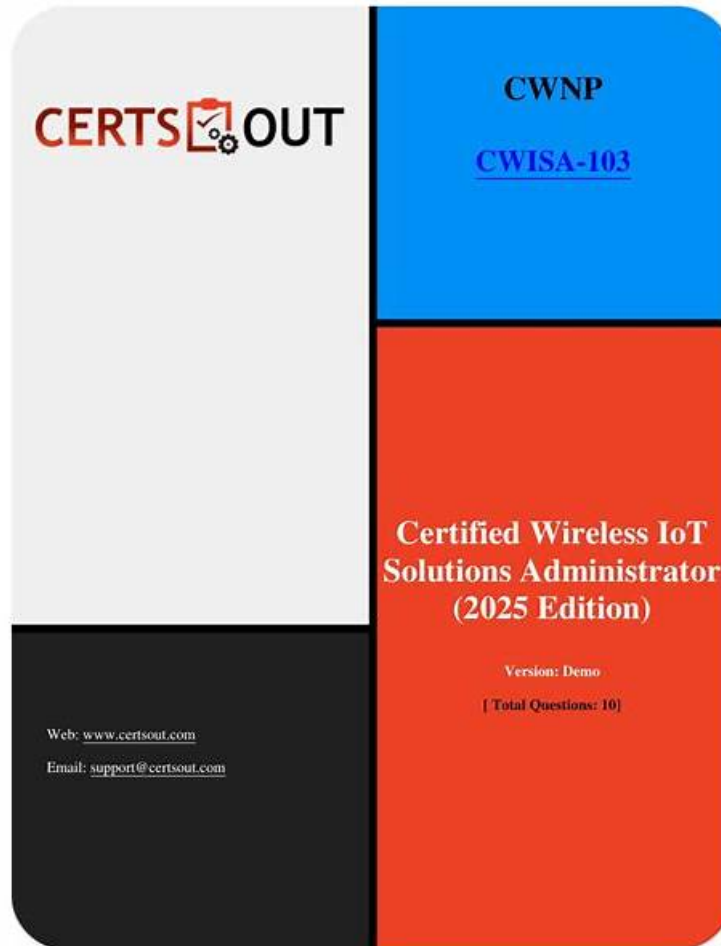


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CWNP CWISA-103 Exam Syllabus Topics:

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"> • 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.
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"> • 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 5	<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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q60-Q65):

NEW QUESTION # 60

You are deploying a ZigBee network based on the frequency band available for ZigBee deployment worldwide. What allowable

action will do the most to minimize ZigBee and 802.11 interference?

- A. Use the 2.4 GHz band for all 802.11 communications
- **B. Use the 5 GHz band for all 802.11 communications**
- C. Use the 6 GHz band for all ZigBee communications
- D. Use the 5 GHz band for all ZigBee communications

Answer: B

Explanation:

* Wi-Fi and Zigbee Interference: Both can operate in the 2.4 GHz band, leading to potential interference that degrades performance for both networks.

* 5 GHz Advantages:

* Less crowded: Fewer devices operate in the 5 GHz band, reducing interference potential.

* Wider Channels: 5 GHz supports wider channels, enabling higher data throughput for Wi-Fi.

NEW QUESTION # 61

You have been asked to consider smart building opportunities for your organization. Which one of these is a benefit of smart building technology?

- A. Faster Wi-Fi connectivity
- B. Reduced design and construction costs
- C. Increased vacation time for building managers
- **D. Improved operational efficiency**

Answer: D

Explanation:

* Smart Building Core Benefit: Smart building technologies primarily aim to optimize a building's operational efficiency through automation and data-driven insights.

* Efficiency Examples:

* Energy Management: Automated lighting and HVAC control based on occupancy and environmental conditions.

* Maintenance: Predictive maintenance through IoT sensors reduces downtime.

* Space Utilization: Optimization of space allocation based on real-time usage patterns.

References

* Smart Buildings: https://en.wikipedia.org/wiki/Smart_building

* Articles on Benefits of Smart Buildings: A quick search will yield many resources detailing these advantages.

NEW QUESTION # 62

In a wireless link, as the signal strength decreases, what else may decrease?

- A. Interference
- B. Latency
- C. Noise
- **D. Transmission speeds**

Answer: D

Explanation:

* Signal Strength and Data Rate: In wireless links, weaker signal strength often directly correlates to reduced transmission speeds. Modern wireless technologies use adaptive modulation and coding, sacrificing speed for reliability when signals become weaker.

* Noise and Interference: While these can impact performance, they don't inherently decrease simply because signal strength drops.

* Latency: Latency can be affected by poor signal, but its primary drivers are distance and network congestion.

References:

Wireless Signal Strength vs. Speed: Articles explaining the relationship and how adaptive modulation works.

Modulation and Coding Schemes (MCS): Technical descriptions of how Wi-Fi and other wireless technologies adjust speeds based on signal quality.

NEW QUESTION # 63

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

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

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.

NEW QUESTION # 64

What software is typically stored in ROM and is used to initialize a device?

- A. Service
- B. Container
- C. Application
- **D. Firmware**

Answer: D

Explanation:

Firmware Definition: Firmware is a type of software embedded in hardware devices. It provides low-level instructions that control the basic operations and initialization of the device.

ROM Storage: Firmware is typically stored in Read-Only Memory (ROM) or other forms of non-volatile memory, meaning it persists even when the device is powered off.

Functions:

Booting: Initiates the hardware and loads the operating system.

Hardware Control: Provides an interface between the hardware and the operating system.

BIOS: The firmware on PCs is often referred to as BIOS (Basic Input/Output System).

NEW QUESTION # 65

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