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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 LANWAN 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"> • 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 5	<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.

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CWNP Certified Wireless IoT Solutions Administrator(2025 Edition) Sample Questions (Q34-Q39):

NEW QUESTION # 34

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

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

Answer: B

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 # 35

Which layer of the OSI model includes encryption protocols such as TLS used in IoT cloud communication?

- A. Layer 7 (Application)
- **B. Layer 4 (Transport)**
- C. Layer 3 (Network)
- D. Layer 2 (Data Link)

Answer: B

Explanation:

TLS typically runs over TCP at the Transport Layer (Layer 4), securing communication sessions between devices and cloud services.

NEW QUESTION # 36

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

- A. All layers
- B. Physical Layer and above
- 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 # 37

What best describes a proof-of-concept implementation?

- A. A full-scale test deployment in the target environment for users to work with
- B. Testing for software bugs that might impact the end user
- C. A demonstration provided by the manufacturer in their facility that shows the capabilities of the system
- 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 # 38

What function does the IEEE perform in relation to wireless technologies?

- A. Designs wireless chipsets
- B. Promotes technology and standards development
- C. Brings wireless products to market
- D. Certified equipment to be compatible

Answer: B

Explanation:

* IEEE's Role: The Institute of Electrical and Electronics Engineers (IEEE) is a global organization critical in developing and promoting technical standards across various fields, including wireless technologies.

* Standards Work: IEEE creates wireless technology standards like:

* IEEE 802.11: Wi-Fi standards

* IEEE 802.15.4: Basis for ZigBee, Thread, and other low-power networks

* IEEE: <https://www.ieee.org/>

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