

CWISA-103 Valid Mock Exam - CWISA-103 High Quality



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Our CWISA-103 exam guide have also set a series of explanation about the complicated parts certificated by the syllabus and are based on the actual situation to stimulate exam circumstance in order to provide you a high-quality and high-efficiency user experience. In addition, the CWISA-103 exam guide function as a time-counter, and you can set fixed time to fulfill your task, so that promote your efficiency in real test. The key strong-point of our CWISA-103 Test Guide is that we impart more important knowledge with fewer questions and answers, with those easily understandable CWISA-103 study braindumps, you will find more interests in them and experience an easy learning process.

CWNP CWISA-103 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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 practices 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 (Q12-Q17):

NEW QUESTION # 12

What organization maintains and publishes the 802.15.4 Standard?

- A. IEEE
- B. Zigbee Alliance
- C. Bluetooth SIG
- D. IETF

Answer: A

Explanation:

* IEEE 802.15.4: The IEEE 802.15.4 standard is a fundamental specification for low-rate wireless personal area networks (LR-WPANs). It serves as the basis for many wireless IoT protocols.

* IEEE's Role: The Institute of Electrical and Electronics Engineers (IEEE) is the organization responsible for creating, maintaining, and publishing the 802.15.4 standard.

References

* IEEE 802.15.4 Standard: https://standards.ieee.org/standard/802_15_4-2020.html

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

NEW QUESTION # 13

You have implemented a wireless mesh network. All mesh nodes are properly configured for participation in the same mesh network. Several of the mesh nodes are unable to connect to other mesh nodes. What action may provide a solution to this problem?

- A. Change the security settings on the faulty mesh nodes
- B. Move the faulty mesh nodes to provide for better signal strength
- C. Change the output power settings only on the faulty mesh nodes
- D. Place the faulty mesh nodes in their own mesh network

Answer: B

Explanation:

* Mesh Connectivity Depends on Signal: Mesh nodes relay data for each other. Weak signal strength between nodes can disrupt connectivity throughout the network.
* Troubleshooting Signal Issues: Physically relocating affected nodes can improve their ability to form stable connections with other nodes in the mesh.

* Why Other Options May Not Help:

* Separate Mesh: Splits the network, not solving the root connectivity issue

* Output Power: May help marginally, but significant improvement is typically achieved through repositioning.

* Security Settings: Unlikely to cause connectivity issues between properly configured nodes in the same mesh.

References:

Wireless Mesh Network Troubleshooting: Guides addressing signal strength and coverage concerns.

RF Site Survey Tools: Resources on software that can help visualize signal strength and aid in node placement.

NEW QUESTION # 14

Which one of the following items has driven large serving 5- to 18-year-old students?

- A. Streaming music
- B. Wearable body sensors
- C. Online torrent sites
- D. Cloud-based applications

Answer: D

Explanation:

* Cloud-based applications drive bandwidth usage: Applications like Google Suite, Microsoft 365, and video conferencing (Zoom, Teams) are commonly used in educational settings. These rely on cloud servers, requiring significant downloads and uploads.

* Shift towards online learning: More schools are utilizing online learning platforms and resources, further increasing their dependence on cloud-based solutions.

* Streaming, torrents, wearables less impactful: Streaming music and torrent sites can contribute, but their impact is generally less significant. Wearables in education are still niche despite their potential.

References

* Trends in education technology: Reports on the rise of cloud-based learning platforms in schools.

* [Example: Project Tomorrow Speak Up Research Project on Digital Learning] (<https://tomorrow.org/speakup/>)

* Network usage studies in schools: Research on bandwidth usage patterns can confirm the primary drivers of traffic in educational settings.

NEW QUESTION # 15

Why is it important to adhere to safety and building codes when installing equipment?

- A. It is an insurance requirement designed to reduce insurance rates and reduce Incident reports against Insurance policies
- B. They can be ignored as they are regulations designed for other industries
- C. It protects the life and health of Installers and end users during installation and after the system is deployed
- D. It prevents equipment from falling to the floor and being damaged because of the Impact

Answer: C

Explanation:

- * Primary Concern: Safety: Building codes and safety regulations are there to prevent injury and accidents. This includes potential harm from improper equipment installation (falling objects, electrical hazards, etc.).
- * Legal and Ethical Responsibility: Organizations have an obligation to provide a safe workplace for employees and protect the well-being of end-users.
- * Insurance Considerations: While complying with codes may impact insurance rates, this shouldn't be the primary motivation, as safety itself is paramount.

References:

Occupational Safety and Health (e.g., OSHA in the US): Websites of regulatory bodies outlining guidelines for safe equipment installation in various settings.

Electrical Codes (e.g., National Electrical Code): Standards that address safe practices to prevent fire and shock hazards.

NEW QUESTION # 16

What is the role of the ITU in wireless communications?

- A. Oversees communications regulatory agencies in each country
- B. Establishes wireless radiation exposure limits
- C. Coordinates the shared global use of the radio spectrum
- D. Defines international communications standards

Answer: C

Explanation:

ITU's Mandate: The International Telecommunication Union (ITU) is a specialized agency of the United Nations focused on global information and communication technologies (ICTs).

Radio Spectrum Regulation: A core ITU function is allocating radio spectrum bands and satellite orbits to prevent harmful interference between different countries and technologies. This coordination is essential for the orderly use of wireless communications worldwide.

NEW QUESTION # 17

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