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CWNP CWISA-103 Exam Syllabus Topics:

Section	Weight	Objectives
		- Administration and Troubleshooting
		1. Wireless solution administration 2. Security misconfiguration 3. Signal strength analysis 4. Interference troubleshooting 5. Firmware and driver issues 6. Performance monitoring
Topic 1: Supporting Wireless Solutions	25%	- Programming and Architecture
		1. Single-tier and multi-tier architectures 2. JSON, XML, YAML and YANG 3. Database systems 4. Python and JavaScript basics 5. IPv4 and IPv6 6. HTTP, HTTPS and MQTT

Topic 2: Radio Frequency Communications 15%	- RF Components and Technologies • 1. Transmitters and receivers • 2. EIRP and ERP • 3. Point-to-point and mesh links • 4. Antennas • 5. RF cabling and connectors - RF Fundamentals • 1. RF bands and frequencies • 2. Signal propagation • 3. RF measurements • 4. Interference and attenuation - Industry Standards and Regulatory Organizations • 1. LoRa Alliance • 2. 3GPP • 3. ITU • 4. Connectivity Standards Alliance • 5. Wi-Fi Alliance • 6. IEEE • 7. FCC, IC, CE and regulatory agencies • 8. IETF • 9. Bluetooth SIG
Topic 3: Wireless Technologies 15%	- Wireless IoT Technologies and Applications • 1. Bluetooth Low Energy (BLE) • 2. Zigbee • 3. LoRa and LoRaWAN • 4. IoT and M2M communications • 5. Location services • 6. ISA100.11a and WirelessHART • 7. Common wireless technologies and communication protocols • 8. Thread and 6LoWPAN • 9. Sigfox • 10. Research and lab testing skills - Security and Integration • 1. RESTful APIs • 2. Authentication and authorization • 3. Monitoring and onboarding • 4. MQTT and WebSockets • 5. Automation and integration • 6. Encryption
Topic 4: Implementing Wireless Solutions 25%	- Deployment and Configuration • 1. Installation and staging • 2. Container-based applications • 3. Cloud connectivity • 4. Wireless and wired connectivity configuration • 5. Video, voice and telemetry features • 6. Pilot testing and proof-of-concept

- Wireless Solution Design

- 1. Cloud and edge computing requirements
- 2. 802.15.4 protocols
- 3. Location tracking technologies
- 4. Bluetooth and BLE
- 5. Wi-Fi HaLow
- 6. APIs and integration protocols
- 7. LAN and WAN networking requirements
- 8. Frequency coordination
- 9. LoRaWAN and Sigfox

Topic 5: Planning Wireless Solutions

20%

- Requirements and Constraints

- 1. Stakeholder identification
- 2. Security and monitoring requirements
- 3. Use cases and applications
- 4. Regulatory compliance
- 5. Capacity planning
- 6. Budget and technical constraints

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新版CWISA-103考古題 & CWISA-103學習指南

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最新的 CWNP CWSA CWISA-103 免費考試真題 (Q64-Q69):

問題 #64

How does OFDMA differ from OFDM?

- A. OFDMA uses multiple radios to achieve higher throughput
- B. Subcarriers of OFDMA can contain data destined for a different receiver
- C. OFDMA allows multiple devices to transmit simultaneously on the same frequency
- D. OFDMA offers greater range by using multiple channels at once

答案: C

解題說明:

OFDM (Orthogonal Frequency-Division Multiplexing): Divides a channel into multiple subcarriers for data transmission.

OFDMA (Orthogonal Frequency-Division Multiple Access): Extends OFDM by allowing multiple users to share subcarriers simultaneously, improving efficiency and spectral utilization.

問題 #65

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

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

答案: A

解題說明:

* 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.

問題 #66

What kind of PoE device can be used to power a non-PoE connected object assuming PoE power is provided on the Ethernet cable?

- A. PoE splitter
- B. PoE coupler
- C. PoE endspan switch
- D. PoE midspan injector

答案: A

解題說明:

PoE Splitter: A PoE splitter separates power and data from a PoE-enabled Ethernet cable, allowing the powering of non-PoE devices.

問題 #67

You are planning to outsource the implementation of a new LoRaWAN w of the service provider performing the implementation in all cases?

- A. Proof of concept
- B. Ongoing free support
- C. Ongoing paid support
- D. Effective documentation

答案: D

解題說明:

Outsourcing Knowledge Transfer: When outsourcing implementation, the service provider has firsthand knowledge of system setup and configuration. Clear documentation ensures this knowledge remains accessible to you after the project is complete.

Ongoing Support: While paid/free support options influence long-term maintenance, they won't substitute missing documentation about the specific setup.

Reducing Future Vendor Reliance: Detailed documentation helps mitigate over-reliance on the service provider for minor changes and troubleshooting, giving you more long-term autonomy.

Proof of Concept: A POC typically happens before outsourcing, and focuses on validating the solution's feasibility, not ensuring smooth knowledge transfer thereafter.

問題 #68

As an RF signal propagates it becomes weaker as it gets farther away from the transmitter. What concept is described?

- A. Diffraction
- B. RF latency
- C. Free Space Path Loss
- D. Beamwidth

答案: C

解題說明:

The concept described is Free Space Path Loss (FSPL). FSPL refers to the reduction in power density of an electromagnetic wave as it propagates through a clear, unobstructed path in free space. This weakening of the signal is due to the spreading of the wavefront as it travels, causing the power to be distributed over a larger area. The FSPL can be calculated using the Friis Transmission Equation, which shows that the received power decreases with the square of the distance from the transmitter. This concept is fundamental to understanding the behavior of RF signals in various communication systems, including wireless IoT, where the signal strength at the receiver is a critical factor for reliable data transmission.

問題 #69

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