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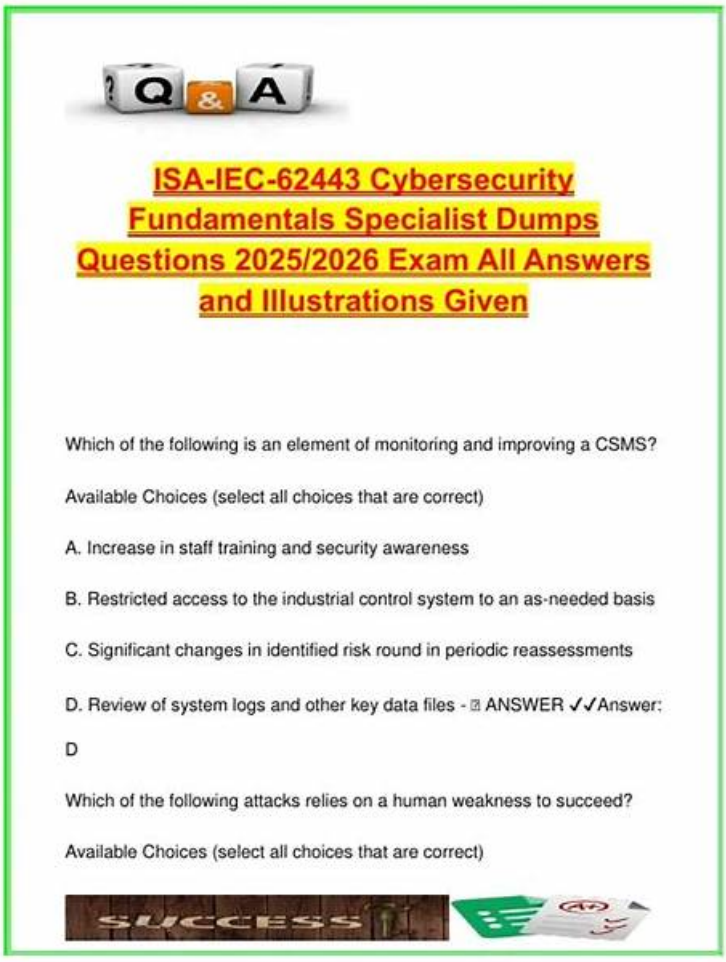

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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q196-Q201):

NEW QUESTION # 196
Which is a PRIMARY reason why network security is important in IACS environments?
Available Choices (select all choices that are correct)

- A. PLCs under cyber attack can have costly and dangerous impacts.
- B. PLCs are inherently unreliable.
- C. PLCs use serial or Ethernet communications methods.
- D. PLCs are programmed using ladder logic.

Answer: A

Explanation:
Network security is important in IACS environments because PLCs, or programmable logic controllers, are devices that control physical processes and equipment in industrial settings. PLCs under cyber attack can have costly and dangerous impacts, such as disrupting production, damaging equipment, compromising safety, and harming the environment. Therefore, network security is essential to protect PLCs and other IACS components from unauthorized access, modification, or disruption. The other choices are not primary reasons why network security is important in IACS environments. PLCs are not inherently unreliable, but they can be affected by environmental factors, such as temperature, humidity, and electromagnetic interference. PLCs are programmed using ladder logic, which is a graphical programming language that resembles electrical schematics. PLCs use serial or Ethernet communications methods, depending on the type and age of the device, to communicate with other IACS components, such as human-machine interfaces (HMIs), supervisory control and data acquisition (SCADA) systems, and distributed control systems (DCSs). References:
ISA/IEC 62443 Standards to Secure Your Industrial Control System training course1 ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide2 Using the ISA/IEC 62443 Standard to Secure Your Control Systems3

NEW QUESTION # 197
Which layer specifies the rules for Modbus Application Protocol
Available Choices (select all choices that are correct)

- A. Application layer
- B. Data link layer
- C. Presentation layer
- D. Session layer

Answer: A

Explanation:
The Modbus Application Protocol is a messaging protocol that provides client/server communication between devices connected on different types of buses or networks. It is positioned at level 7 of the OSI model, which is the application layer. The application layer is the highest level of the OSI model and defines the rules and formats for data exchange between applications. The Modbus Application Protocol is independent of the underlying communication layers and can be implemented using different transport protocols, such as TCP
/IP, serial, or Modbus Plus. The Modbus Application Protocol defines the function codes, data formats, and error codes for Modbus transactions123 References:
* MODBUS APPLICATION PROTOCOL SPECIFICATION V1
* Modbus - Wikipedia
* Overview of Modbus - EPICS support for Modbus - GitHub Pages

NEW QUESTION # 198
Which of the following are the critical variables related to access control?
Available Choices (select all choices that are correct)

- A. Reporting and monitoring
- B. Account management and password strength
- C. Account management and monitoring
- D. Password strength and change frequency

Answer: B

Explanation:
Access control is the process of granting or denying specific requests to obtain and use information and related information processing services. It is one of the foundational requirements (FRs) of the ISA/IEC
62443 standards for securing industrial automation and control systems (IACSs). According to the ISA/IEC
62443-3-3 standard, access control includes the following system requirements (SRs):
* SR 1.1: Identification and authentication control
* SR 1.2: Use control
* SR 1.3: System integrity
* SR 1.4: Data confidentiality
* SR 1.5: Restricted data flow
* SR 1.6: Timely response to events
* SR 1.7: Resource availability
Among these SRs, the ones that are most related to the critical variables of account management and password strength are SR 1.1 and SR 1.2. SR 1.1 requires that the IACS shall provide the capability to uniquely identify and authenticate all users, processes, and devices that attempt to establish a logical connection to the system. This means that the IACS should have a robust account management system that can create, modify, delete, and monitor user accounts and their privileges. It also means that the IACS should enforce strong password policies that can prevent unauthorized access or compromise of user credentials.
Password strength refers to the level of difficulty for an attacker to guess or crack a password. It depends on factors such as length, complexity, randomness, and uniqueness of the password.
SR 1.2 requires that the IACS shall provide the capability to enforce the use of logical connections in accordance with the security policy of the organization. This means that the IACS should have a mechanism to control the access rights and permissions of users, processes, and devices based on their roles, responsibilities, and needs. It also means that the IACS should have a mechanism to audit and log the activities and events related to access control, such as successful or failed login attempts, password changes, privilege escalations, or unauthorized actions.
Therefore, account management and password strength are the critical variables related to access control, as they directly affect the identification, authentication, and authorization of users, processes, and devices in the IACS.
References:
ISA/IEC 62443-3-3:2013, Security for industrial automation and control systems - Part 3-3: System security requirements and security levels1 ISA/IEC 62443 Cybersecurity Fundamentals Specialist Certificate Program2 ISA/IEC 62443 Cybersecurity Library3 Using the ISA/IEC 62443 Standards to Secure Your Control Systems4

NEW QUESTION # 199
Which communications system covers a large geographic area?
Available Choices (select all choices that are correct)

- A. Wide Area Network (WAN)
- B. Storage Area Network
- C. Local Area Network (LAN)
- D. Campus Area Network (CAN)

Answer: A

Explanation:
A Wide Area Network (WAN) is a communications system that covers a large geographic area, such as a city, a country, or even several countries or continents1. WANs are often used to connect local area networks (LANs) and other types of networks together, so that users and computers in one location can communicate with users and computers in other locations2. WANs use various communication infrastructures, such as public telephone lines, undersea cables, and communication satellites, to transmit data over long distances1. WANs are typically established with leased telecommunication circuits or less costly circuit switching or packet switching methods2. WANs are often built by Internet service providers, who provide connections from an organization's LAN to the Internet2. The Internet itself may be considered a WAN2. References: Hardware and network technologies - CCEA
LAN and WAN - BBC, Wide area network
- Wikipedia.

NEW QUESTION # 200
Which of the following attacks relies on a human weakness to succeed?
Available Choices (select all choices that are correct)

- A. Phishing
- B. Spoofing
- C. Denial-of-service
- D. Escalation-of-privileges

Answer: A

Explanation:
Phishing is a type of cyberattack that relies on a human weakness to succeed. Phishing is the practice of sending fraudulent emails or other messages that appear to come from a legitimate source, such as a bank, a government agency, or a trusted person, in order to trick the recipient into revealing sensitive information, such as passwords, credit card numbers, or personal details, or into clicking on malicious links or attachments that may install malware or ransomware on their devices. Phishing is a common and effective way of compromising the security of industrial automation and control systems (IACS), as it can bypass technical security measures by exploiting the human factor. Phishing can also be used to gain access to the IACS network, to conduct reconnaissance, to launch further attacks, or to cause damage or disruption to the IACS operations. The ISA/IEC 62443 series of standards recognize phishing as a potential threat vector for IACS and provide guidance and best practices on how to prevent, detect, and respond to phishing attacks. Some of the recommended countermeasures include:
* Educating and training the IACS staff on how to recognize and avoid phishing emails and messages, and how to report any suspicious or malicious activity.
* Implementing and enforcing policies and procedures for email and message security, such as using strong passwords, verifying the sender's identity, and not opening or clicking on unknown or unsolicited links or attachments.
* Applying technical security controls, such as antivirus software, firewalls, spam filters, encryption, and authentication, to protect the IACS devices and network from phishing attacks.
* Monitoring and auditing the IACS network and devices for any signs of phishing attacks, such as anomalous or unauthorized traffic, connections, or activities, and taking appropriate actions to contain and mitigate the impact of any incidents. References:
* ISA/IEC 62443-1-1:2009, Security for industrial automation and control systems - Part 1-1:
Terminology, concepts and models1
* ISA/IEC 62443-2-1:2009, Security for industrial automation and control systems - Part 2-1:
Establishing an industrial automation and control systems security program2
* ISA/IEC 62443-2-4:2015, Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers3
* ISA/IEC 62443-3-3:2013, Security for industrial automation and control systems - Part 3-3: System security requirements and security levels4
* ISA/IEC 62443-4-2:2019, Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components5

NEW QUESTION # 201
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