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ISA-IEC-62443 EXAM DUMPS QUESTIONS WITH CORRECT ANSWERS 2025

ISA/IEC 62443 Cybersecurity Fundamentals Specialist - CORRECT ANSWER -
The ISA/IEC 62443 Cybersecurity Fundamentals Specialist exam is part of a comprehensive certification program offered by the International Society of Automation (ISA). The program is centered around the ISA/IEC 62443 series of automation cybersecurity standards, which are the world's only consensus-based set of guidelines dedicated to industrial cybersecurity. The Cybersecurity Fundamentals Specialist exam is designed to assess and validate the knowledge and understanding of individuals involved in IT and control system security roles, particularly those working in industrial settings.

ISA/IEC 62443 Cybersecurity Certificate Program - CORRECT ANSWER -
To take the exam, you need to complete a designated training course and pass a 75-100 question multiple-choice exam. While there are no formal prerequisites to begin this program, it is recommended that you have three to five years of experience in the IT cybersecurity field, with some experience in an industrial setting. Familiarity with the ISA/IEC 62443 standards is also helpful.

The ISA/IEC 62443 Cybersecurity certificate program offers four levels of certification:

- Certificate 1: ISA/IEC 62443 Cybersecurity Fundamentals Specialist
- Certificate 2: ISA/IEC 62443 Cybersecurity Risk Assessment Specialist
- Certificate 3: ISA/IEC 62443 Cybersecurity Design Specialist
- Certificate 4: ISA/IEC 62443 Cybersecurity Maintenance Specialist

Successful completion of Certificate 1 is required before taking the exams for Certificates 2, 3, and 4. The courses and certificate exams for Certificates 2, 3, and 4 may be taken in any order. Upon successful completion of all four certificates, you will be awarded the ISA/IEC 62443 Cybersecurity Expert certificate.

Recommended Experience - CORRECT ANSWER -
While there are no required prerequisites or formal applications to begin this program, consider the following recommendations:

- You should have three to five years of experience in the IT cybersecurity field, with some experience in an industrial setting—at least two years specifically in a process control engineering setting
- Familiarity with the ISA/IEC 62443 standards is helpful
- The advanced courses do have recommended course prerequisites and experience, but they are not required

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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q37-Q42):

NEW QUESTION # 37

Which is the PRIMARY reason why Modbus over Ethernet is easy to manage in a firewall?

Available Choices (select all choices that are correct)

- A. Modbus uses explicit source and destination IP addresses and a single known TCP port.
- B. Modbus has no known security vulnerabilities, so firewall rules are simple to implement.
- C. Modbus uses a single master to communicate with multiple slaves using simple commands.
- D. Modbus is a proprietary protocol that is widely supported by vendors.

Answer: A

Explanation:

According to the ISA/IEC 62443-2-4 standard, a training and security awareness program should include all personnel who have access to the industrial automation and control system (IACS) or who are involved in its operation, maintenance, or management. This includes vendors and suppliers, employees, temporary staff, contractors, and visitors. The purpose of the program is to ensure that all personnel are aware of the security risks and policies related to the IACS, and that they have the necessary skills and knowledge to perform their roles in a secure manner. The program should also cover the roles and responsibilities of different personnel, the reporting procedures for security incidents, and the best practices for security hygiene. References: ISA/IEC 62443-2-4:2015 - Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers1 ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course2

NEW QUESTION # 38

Which communications system covers a large geographic area?

Available Choices (select all choices that are correct)

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

Answer: D

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 # 39

Which layer in the Open Systems Interconnection (OSI) model would include the use of the File Transfer Protocol (FTP)?

Available Choices (select all choices that are correct)

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

Answer: A

Explanation:

The File Transfer Protocol (FTP) is an application layer protocol that moves files between local and remote file systems. It runs on top of TCP, like HTTP. To transfer a file, 2 TCP connections are used by FTP in parallel: control connection and data connection. The control connection is used to send commands and responses between the client and the server, while the data connection is used to transfer the actual file. FTP is one of the standard communication protocols defined by the TCP/IP model and it does not fit neatly into the OSI model. However, since the OSI model is a reference model that describes the general functions of each layer, FTP can be considered as an application layer protocol in the OSI model, as it provides user services and interfaces to the network. The application layer is the highest layer in the OSI model and it is responsible for providing various network services to the users, such as email, web browsing, file transfer, remote login, etc. The application layer interacts with the presentation layer, which is responsible for data formatting, encryption, compression, etc. The presentation layer interacts with the session layer, which is responsible for establishing, maintaining, and terminating sessions between applications. The session layer interacts with the transport layer, which is responsible for reliable end-to-end data transfer and flow control. The transport layer interacts with the network layer, which is responsible for routing and addressing packets across different networks. The network layer interacts with the data link layer, which is responsible for framing, error detection, and medium access control. The data link layer interacts with the physical layer, which is responsible for transmitting and receiving bits over the physical medium. References:

* File Transfer Protocol (FTP) in Application Layer1

* FTP Protocol2

* What OSI layer is FTP?3

NEW QUESTION # 40

Which of the following is NOT listed under Organizational Security Measures (SP Element 1)?

- A. Supply chain security
- B. Background checks
- C. Malware protection
- D. Security awareness training

Answer: C

Explanation:

ISA/IEC 62443-2-1 defines SP Element 1 - Organizational Security Measures as the set of governance, policy, and people-focused controls that establish the foundation of an IACS Security Program. These measures are organizational in nature and are intended to create accountability, awareness, and structured risk management.

Step 1: Scope of SP Element 1

SP Element 1 includes activities such as:

- * Security policy definition
- * Roles and responsibilities
- * Personnel security (e.g., background checks)
- * Security awareness and training
- * Supply chain security governance

These controls ensure that people, processes, and third-party relationships support cybersecurity objectives.

Step 2: Why malware protection does not belong here

Malware protection is a technical control, not an organizational measure. In ISA/IEC 62443, malware protection is addressed under SP Element 4 - Component Hardening, which focuses on endpoint protection, anti-malware mechanisms, and secure configurations.

Step 3: Why the other options are valid

- * Background checks are explicitly part of personnel security.
- * Supply chain security is a key organizational concern.
- * Security awareness training ensures staff understand their responsibilities.

Therefore, Malware protection is not listed under SP Element 1.

NEW QUESTION # 41

What does Foundational Requirement 6 (FR 6) - Timely Response to Events (TRE) require?

- A. Protect against unauthorized operation
- **B. Notify the proper authority about security violations**
- C. Ensure adequate responses to network resource requests
- D. Control access to information

Answer: B

Explanation:

Foundational Requirement 6 (FR 6), Timely Response to Events (TRE), as described in ISA/IEC 62443-3-3, requires that the system detect and respond to security-relevant events, including notifying the proper authority or personnel about security violations in a timely manner. This enables rapid incident response, containment, and recovery actions, all of which are critical to minimizing damage.

Reference: ISA/IEC 62443-3-3:2013, Section 4.3.3.6 (FR 6: Timely Response to Events).

NEW QUESTION # 42

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