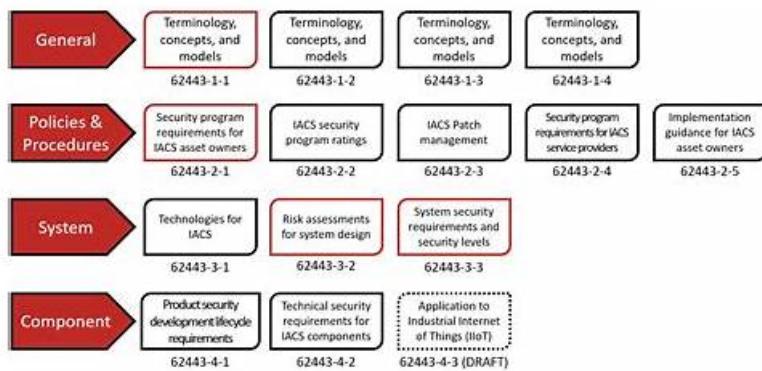


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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q215-Q220):

NEW QUESTION # 215

What is the purpose of ISO/IEC 15408 (Common Criteria)?

Available Choices (select all choices that are correct)

- A. To define a product development evaluation methodology
- B. To describe what constitutes a secure product
- C. To define a security management organization
- D. To describe a process for risk management

Answer: A

NEW QUESTION # 216

Under User Access Control (SP Element 6), which of the following is included in USER 1 - Identification and Authentication?

- A. Password protection
- B. Mutual authentication
- C. Incident handling and response
- D. Backup restoration

Answer: A

Explanation:

SP Element 6 in ISA/IEC 62443-2-1 addresses User Access Control, ensuring that only authorized users can access IACS resources.

Step 1: Definition of USER 1

USER 1 corresponds to Identification and Authentication Control (IAC), the first foundational requirement. It focuses on verifying the identity of users before granting access.

Step 2: Password protection

Password mechanisms are a fundamental form of user authentication and are explicitly included under identification and authentication requirements.

Step 3: Why other options are incorrect

Mutual authentication applies to system-to-system authentication. Backup restoration and incident handling belong to different SP Elements.

Step 4: Security intent

By enforcing password protection, the asset owner ensures accountability, traceability, and prevention of unauthorized access. Therefore, the correct answer is Password protection.

NEW QUESTION # 217

Which is one of the PRIMARY goals of providing a framework addressing secure product development life- cycle requirements?

- A. Aligned needs of industrial users
- B. Well-documented security policies and procedures
- C. Defense-in-depth approach to designing
- D. **Aligned development process**

Answer: D

Explanation:

ISA/IEC 62443-4-1 provides a framework for secure product development lifecycle (SDL). One of its primary goals is to ensure that security practices are integrated consistently and systematically throughout the product's development process.

"The objective of this part is to define a secure development lifecycle process that results in a consistent and repeatable approach to building secure products."

- ISA/IEC 62443-4-1:2018, Clause 1 - Scope

While all listed items may contribute to security, the core intent of Part 4-1 is to ensure an aligned, structured development process.

References:

ISA/IEC 62443-4-1:2018 - Clause 1

Clause 4 - SDL Practices and Process Requirements

NEW QUESTION # 218

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

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

Answer: C

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 # 219

Which of the following are the critical variables related to access control?

Available Choices (select all choices that are correct)

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

Answer: C

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 # 220

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