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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q195-Q200):

NEW QUESTION # 195

A company is developing an automation solution and wants to align its cybersecurity efforts with ISA/IEC 62443 standards. Which lifecycle phases should be integrated into their project plan to cover both security and automation solution security comprehensively?

- A. Operate and Maintain phases exclusively
- B. Design and Implement phases
- C. Verification and Validation phase only
- D. All phases

Answer: D

Explanation:

ISA/IEC 62443 is explicitly lifecycle-based, requiring cybersecurity considerations to be integrated across all phases of an automation solution's lifecycle. This includes concept, design, implementation, verification, operation, maintenance, and decommissioning.

Step 1: Lifecycle philosophy of ISA/IEC 62443

The standard recognizes that cybersecurity risks emerge and evolve throughout the system lifecycle.

Addressing security in only one phase leaves gaps that attackers can exploit.

Step 2: Design and implementation are not sufficient

While secure architecture and configuration are critical, they must be supported by secure development practices, verification, operational procedures, incident response, patching, and change management.

Step 3: Operational importance

Many cybersecurity failures occur during operation due to poor maintenance, weak access control, or unmanaged changes. ISA/IEC 62443-2-1 and 3-3 explicitly address these phases.

Step 4: End-of-life considerations

Decommissioning must also be planned to ensure data, credentials, and access paths are securely removed.

Because the standard spans management (2-x), system (3-x), and component (4-x) requirements across the lifecycle, all phases must be integrated.

NEW QUESTION # 196

Which of the following BEST describes 'Vulnerability'?

- A. The result that occurs from a particular incident
- B. An event that could breach security
- C. An exploitable flaw in management
- **D. The potential for violation of security**

Answer: D

Explanation:

According to IEC 62443-1-1, a vulnerability is defined as:

"A weakness in an asset or in the protective measures associated with that asset that can be exploited by a threat source." More broadly, it represents the potential for a violation of security, rather than a guaranteed breach or specific event.

This aligns with the understanding in cybersecurity risk management - a vulnerability does not equate to an incident or result, but rather a potential that could be exploited.

Incorrect Options:

A). An exploitable flaw in management - Too narrow; vulnerabilities exist in systems, software, devices, not just management.

B). An event that could breach security - That's a threat, not a vulnerability.

D). The result that occurs from a particular incident - That would be considered a consequence or impact, not the vulnerability itself.

References:

ISA/IEC 62443-1-1:2007 - "Terminology, Concepts, and Models"

ISA/IEC 62443 Study Guide

NEW QUESTION # 197

What are the two elements of the risk analysis category of an IACS?

Available Choices (select all choices that are correct)

- A. Risk evaluation and risk identification
- B. Business recovery and risk elimination or mitigation
- **C. Business rationale and risk identification and classification**
- D. Business rationale and risk reduction and avoidance

Answer: C

Explanation:

The risk analysis category of an IACS consists of two elements: business rationale and risk identification and classification¹. Business rationale is the process of defining the scope, objectives, and criteria for the risk analysis, as well as the roles and responsibilities of the stakeholders involved. Risk identification and classification is the process of identifying the assets, threats, vulnerabilities, and

consequences of a cyberattack on the IACS, and assigning a risk level to each scenario based on the likelihood and impact of the attack. These elements are essential for establishing a baseline of the current risk posture of the IACS and determining the appropriate risk treatment measures to reduce the risk to an acceptable level. References: 1: ISA/IEC 62443-3-2:2020, Security for industrial automation and control systems - Part 3-2: Security risk assessment for system design, International Society of Automation, Research Triangle Park, NC, USA, 2020.

NEW QUESTION # 198

Which is a role of the application layer?

Available Choices (select all choices that are correct)

- A. Includes user applications specific to network applications such as email, file transfer, and reading data registers in a PLC
- B. Provides the mechanism for opening, closing, and managing a session between end-user application processes
- C. Delivers and formats information, possibly with encryption and security
- D. Includes protocols specific to network applications such as email, file transfer, and reading data registers in a PLC

Answer: C,D

Explanation:

The application layer is the topmost layer of the OSI model, which provides the interface between the user and the network. It includes protocols specific to network applications such as email, file transfer, and reading data registers in a PLC. These protocols deliver and format information, possibly with encryption and security, to ensure reliable and meaningful communication between different applications. The application layer does not include user applications, which are separate from the network protocols. The application layer also does not provide the mechanism for opening, closing, and managing a session between end-user application processes, which is the function of the session layer. References:

* ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, page 181

* Using the ISA/IEC 62443 Standards to Secure Your Control System, page 82 The application layer in network protocols, such as in the OSI model or the TCP/IP protocol suite, is primarily responsible for providing services directly to user applications. This layer is involved in:

* Option A: Including protocols specific to network applications such as email, file transfer, and industrial protocols like reading data registers in a Programmable Logic Controller (PLC). This is a core function of the application layer as it facilitates specific high-level networking capabilities.

* Option D: Delivering and formatting information, which can include encryption and ensuring the security of data as it is transmitted across the network. This includes protocols like HTTP for web browsing which can encrypt data via HTTPS, SMTP for secure email transmission, and FTP for secure file transfer.

NEW QUESTION # 199

After receiving an approved patch from the IACS vendor, what is BEST practice for the asset owner to follow?

- A. If a low priority, there is no need to apply the patch.
- B. If a high priority, apply the patch at the first unscheduled outage.
- C. If a medium priority, schedule the installation within three months after receipt.
- D. If no problems are experienced with the current IACS, it is not necessary to apply the patch.

Answer: B

Explanation:

Per ISA/IEC 62443-2-1 and 62443-2-3, proper patch management is part of operational cybersecurity. For high-priority or critical security patches, the best practice is to apply the patch at the earliest possible opportunity, often during the next available unscheduled or scheduled outage.

"Asset owners shall define procedures for evaluating and applying patches based on criticality and potential impact. High-priority patches should be applied at the earliest opportunity, preferably at the first available system downtime."

- ISA/IEC 62443-2-3:2015, Clause 6.1 - Patch Management Process

Waiting unnecessarily or skipping patches because "nothing is broken" is not acceptable in security-critical environments.

References:

ISA/IEC 62443-2-1:2010 - Clause 4.4.3.2

ISA/IEC 62443-2-3:2015 - Patch Management Guidance

NEW QUESTION # 200

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