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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q199-Q204):

NEW QUESTION # 199

An industrial control system requires strong protection against intentional violations using sophisticated means and moderate skills. According to the Security Level (SL) definitions, which SL should be targeted?

- A. SL 2
- B. SL 1
- **C. SL 3**
- D. SL 4

Answer: C

Explanation:

Security Levels (SLs) in the ISA/IEC 62443 framework define the degree of protection against specific threat actors. SL 3 is designed to protect against intentional violations using sophisticated means with moderate skills, moderate motivation, and IACS-specific knowledge.

"SL 3: Protection against intentional violation using sophisticated means with moderate skills, moderate motivation, and IACS-specific knowledge."

- ISA/IEC 62443-3-3:2013, Table 3 - Target Security Level definitions

This level is commonly applied to systems facing well-resourced threat actors such as organized cybercriminals or advanced persistent threats (APTs), where higher assurance is necessary than what SL1 or SL2 would provide.

References:

ISA/IEC 62443-3-3:2013 - Table 3

ISA/IEC 62443-1-1 - Security Level Definitions

ISA/IEC 62443-3-2 - Security level selection and justification guidance

NEW QUESTION # 200

What is a key activity in the Maintain phase?

- **A. Managing changes**
- B. Risk assessment
- C. Allocating assets to security zones
- D. Designing cybersecurity countermeasures

Answer: A

Explanation:

The "Maintain" phase is the fourth phase of the IACS Cybersecurity Lifecycle described in ISA/IEC 62443-2-

1. A key activity in this phase is managing changes (also known as "change management"). This activity ensures that any modifications to the IACS environment (hardware, software, processes, etc.) are evaluated for cybersecurity impact, and proper controls are implemented to maintain the intended security posture.

While risk assessment is typically done in the Assess phase, and allocating assets and designing countermeasures belong to earlier phases, managing changes is essential for ensuring ongoing compliance and effectiveness of cybersecurity controls over time.

Reference: ISA/IEC 62443-2-1:2009, Section 5.6 (Maintain Phase), Table 3 (CSMS lifecycle activities).

NEW QUESTION # 201

Which of the following refers to internal rules that govern how an organization protects critical system resources?

Available Choices (select all choices that are correct)

- A. Formal guidance
- B. Legislation
- **C. Security policyD- Code of conduct**

Answer: C

Explanation:

A security policy refers to internal rules that govern how an organization protects critical system resources, such as industrial control systems (ICS). A security policy defines the objectives, scope, roles, responsibilities, and requirements for securing the ICS environment, as well as the procedures and guidelines for implementing, monitoring, and enforcing the security measures. A security policy also establishes the baseline for assessing and managing the security risks to the ICS, and for ensuring compliance with relevant standards, regulations, and best practices. A security policy is a key component of the ICS security program, and it should be documented, communicated, and reviewed regularly.

The other choices are not correct because:

A). Formal guidance. Formal guidance refers to external sources of information and recommendations that can help an organization improve its ICS security posture, such as standards, frameworks, guidelines, and best practices. Formal guidance is not an internal rule, but rather a reference that can be used to develop, implement, and evaluate the security policy and controls. For example, the ISA/IEC 62443 series of standards provide formal guidance on how to secure ICS from cyber threats¹.

B). Legislation. Legislation refers to external laws and regulations that impose legal obligations and penalties on an organization for its ICS security performance, such as the NERC CIP standards for the electric sector², or the EU NIS Directive for critical infrastructure operators³. Legislation is not an internal rule, but rather a compliance requirement that must be met by the organization. Legislation may also influence the security policy and controls, as the organization needs to align its security objectives and practices with the legal expectations and consequences.

D). Code of conduct. A code of conduct refers to a set of ethical principles and values that guide the behavior and decision-making of an organization and its employees, such as honesty, integrity, respect, and accountability. A code of conduct is not an internal rule for protecting critical system resources, but rather a general norm for conducting business and maintaining a positive reputation. A code of conduct may also support the security policy and culture, as it can foster a sense of responsibility and trust among the ICS stakeholders.

References:

1: ISA/IEC 62443 Standards to Secure Your Industrial Control System

2: NERC Critical Infrastructure Protection Standards

3: EU Network and Information Systems Directive

NEW QUESTION # 202

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

Answer: C

Explanation:

According to the ISA/IEC 62443 Cybersecurity Fundamentals Specialist resources, patches are software updates that fix bugs, vulnerabilities, or improve performance of a system. Patches are classified into three categories based on their urgency and impact: low, medium, and high. Low priority patches are those that have minimal or no impact on the system functionality or security, and can be applied at the next scheduled maintenance. Medium priority patches are those that have moderate impact on the system functionality or security, and should be applied within a reasonable time frame, such as three months. High priority patches are those that have significant or critical impact on the system functionality or security, and should be applied as soon as possible, preferably at the first unscheduled outage. Applying patches in a timely manner is a best practice for maintaining the security and reliability of an industrial automation and control system (IACS).

References:

* ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, Section 4.3.2, Patch Management

* ISA/IEC 62443-2-1:2009, Security for industrial automation and control systems - Part 2-1: Establishing an industrial automation and control systems security program, Clause 5.3.2.2, Patch management

* ISA/IEC 62443-3-3:2013, Security for industrial automation and control systems - Part 3-3: System security requirements and security levels, Clause 4.3.3.6.2, Patch management

NEW QUESTION # 203

Which is a reason for
and physical security regulations meeting a mixed resistance?

Available Choices (select all choices that are correct)

- A. Regulations are voluntary documents.
- **B. There are a limited number of enforced cybersecurity and physical security regulations.**
- C. Cybersecurity risks can best be managed individually and in isolation.
- D. Regulations contain only informative elements.

Answer: B

Explanation:

Cybersecurity and physical security regulations are intended to provide guidance and requirements for protecting industrial control systems from various threats and risks. However, these regulations may face mixed resistance from different stakeholders for various reasons. One of the reasons is that there are a limited number of enforced cybersecurity and physical security regulations, especially at the international level. This means that some regions or countries may have more stringent or comprehensive regulations than others, creating inconsistencies and challenges for cross-border cooperation and compliance. Moreover, some regulations may be outdated or not aligned with the current best practices and standards, such as ISA/IEC

62443, which may limit their effectiveness and applicability. Therefore, some organizations may prefer to follow voluntary standards or frameworks, such as ISA/IEC 62443, rather than mandatory regulations, as they may offer more flexibility and adaptability to the specific needs and contexts of each industrial control system. References:

* ISA/IEC 62443 Standards to Secure Your Industrial Control System, page 3

* Using the ISA/IEC 62443 Standard to Secure Your Control System, page 9

NEW QUESTION # 204

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