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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q73-Q78):

NEW QUESTION # 73

In terms of availability requirements, how do IACS and IT differ?

- A. Continuous operation is expected in IT while scheduled operation is sufficient for IACS.
- B. Both IACS and IT have the same availability requirements.
- C. Rebooting is never acceptable in IT but tolerated in IACS.
- D. IACS tolerates occasional failures while IT does not.

Answer: A

Explanation:

The ISA/IEC 62443 standards explain that continuous operation is often required in IT systems (such as data centers and online

services), but for IACS environments, scheduled operation (for example, planned maintenance windows) is typically sufficient. IACS systems may accept limited downtime for maintenance, but require high availability during production runs.
Reference: ISA/IEC 62443-1-1:2007, Section 4.4.4 ("Availability in IACS and IT contexts"); Table 7 (Comparison of IT and IACS requirements).

NEW QUESTION # 74

Which of the following BEST describes a control system?

- A. Measures taken to protect against unauthorized access
- **B. Hardware and software components of an IACS**
- C. Actions to prevent loss of revenue
- D. Unauthorized modifications to data

Answer: B

Explanation:

A control system, particularly in the context of IACS, is defined as a collection of hardware and software components used to monitor and control industrial processes. This includes PLCs, RTUs, SCADA software, HMIs, and communication networks.
"Control system: A set of hardware and software components that work together to monitor and control industrial or process operations."

- ISA/IEC 62443-1-1:2007, Clause 3.3.5 - Terminology

While the other options describe security functions or consequences, only Option C accurately describes what a control system is.

References:

ISA/IEC 62443-1-1:2007 - Clause 3.3.5

ISA/IEC 62443-2-1 - Asset definitions

NEW QUESTION # 75

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 # 76

Which is the PRIMARY objective when defining a security zone?

Available Choices (select all choices that are correct)

- **A. All assets in the zone must share the same security requirements.**
- B. All assets in the zone must be from the same vendor.

- C. All assets in the zone must be physically located in the same area.
- D. All assets in the zone must be at the same level in the Purdue model.

Answer: A

Explanation:

According to the ISA/IEC 62443-3-2 standard, a security zone is a grouping of systems and components based on their functional, logical, and physical relationship that share common security requirements. The primary objective of defining a security zone is to apply a consistent level of protection to the assets within the zone, based on their criticality and risk assessment. A security zone may contain assets from different vendors, different levels in the Purdue model, or different physical locations, as long as they have the same security requirements. A security zone may also be subdivided into subzones, if there are different security requirements within the zone. A conduit is a logical or physical grouping of communication channels connecting two or more zones that share common security requirements.

References:

ISA/IEC 62443-3-2:2020, Security for industrial automation and control systems - Part 3-2: Security risk assessment for system design, Clause 4.3.21 ISA/IEC 62443-1-1:2009, Security for industrial automation and control systems - Part 1-1: Terminology, concepts and models, Clause 3.2.42

NEW QUESTION # 77

Which of the following is an industry sector-specific standard?

Available Choices (select all choices that are correct)

- A. D. ISO 27001
- **B. API 1164**
- C. NIST SP800-82
- D. ISA-62443 (EC 62443)

Answer: B

Explanation:

API 1164 is an industry sector-specific standard that provides guidance on the cybersecurity of pipeline supervisory control and data acquisition (SCADA) systems. API stands for American Petroleum Institute, which is the largest U.S. trade association for the oil and natural gas industry. API 1164 was first published in

2004 and revised in 2009 and 2021. The latest version of the standard aligns with the ISA/IEC 62443 series of standards and incorporates the concepts of security levels, zones, and conduits. API 1164 covers the security lifecycle of pipeline SCADA systems, from risk assessment and policy development to implementation and maintenance. The standard also defines roles and responsibilities, security requirements, security controls, and security assessment methods for pipeline SCADA systems.

References:

API 1164: Pipeline SCADA Security, Fourth Edition, September 2021

ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, Section 2.2.2, Industry Sector-Specific Standards ISA/IEC 62443 Cybersecurity Fundamentals Specialist Exam Specification, Section 2.2.2, Industry Sector- Specific Standards

NEW QUESTION # 78

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