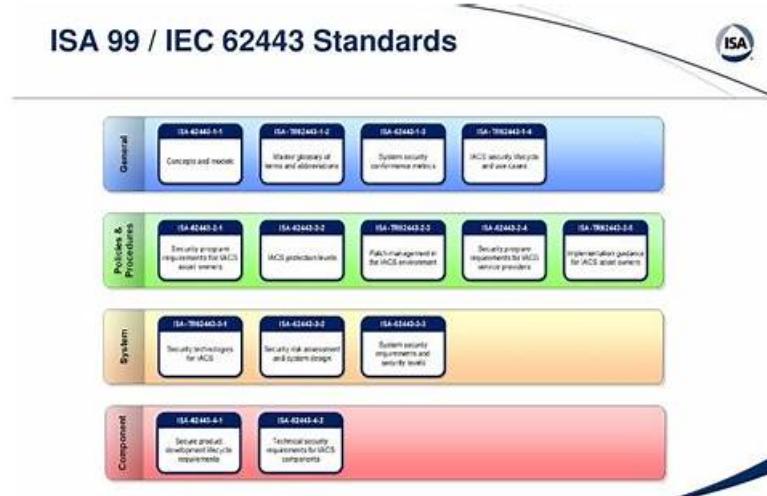


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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q50-Q55):

NEW QUESTION # 50

Which of the following ISA-99 (IEC 62443) Reference Model levels is named correctly?

- A. Level 1: Supervisory Control
- B. Level 4: Process
- C. **Level 3: Operations Management**
- D. Level 2: Quality Control

Answer: C

Explanation:

According to ISA/IEC 62443-1-1:2007 (Terminology, Concepts, and Models), the functional levels of the Industrial Automation and Control System (IACS) are derived from the Purdue Enterprise Reference Architecture (PERA). These levels are defined as follows:

Level
Function
Description
Level 0
Process

The actual physical process, including sensors and actuators.

Level 1
Basic Control
Devices responsible for direct control, such as PLCs and RTUs.

Level 2
Area Supervisory Control
Supervisory systems such as HMIs and SCADA, responsible for monitoring/control.

Level 3
Site Manufacturing Operations Management
Operations management systems such as MES, production scheduling, and workflow.

Level 4
Business Planning and Logistics
Enterprise-level systems such as ERP, supply chain, and logistics.

Analysis of Each Option:

Option A: Level 1: Supervisory Control

Incorrect. Level 1 is defined as Basic Control, not Supervisory Control. Supervisory functions appear at Level 2.

Option B: Level 2: Quality Control

Incorrect. Level 2 is defined as Area Supervisory Control, not Quality Control.

Option C: Level 3: Operations Management

Correct. Level 3 is specifically identified as Operations Management, which includes manufacturing execution and scheduling functions.

Option D: Level 4: Process

Incorrect. Level 4 corresponds to Business Planning and Logistics. The Process is represented at Level 0.

References:

ISA/IEC 62443-1-1:2007, Section 6.2 - "Industrial automation and control system levels" ISA/IEC 62443-3-3 - Security for industrial automation and control systems: System security requirements and security levels ISA Training Materials - ISA/IEC 62443 Cybersecurity Fundamentals Specialist

NEW QUESTION # 51

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

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

Answer: B

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 # 52

What is Modbus?

- A. A serial communications protocol
- B. A type of industrial machinery
- C. A programming language
- D. A network security standard

Answer: A

Explanation:

Modbus is defined as a serial communication protocol widely used in industrial environments to enable communication among devices such as PLCs, sensors, and actuators.

From ISA/IEC 62443-1-1 (Terminology, Concepts, and Models), Modbus is mentioned in the context of communication protocols: "Many IACS use legacy communication protocols (e.g., Modbus, DNP3) that were not originally designed with cybersecurity in mind." Modbus was developed in 1979 by Modicon and operates over serial lines (RS-232, RS-485) or over Ethernet as Modbus TCP/IP. It follows a master/slave or client/server architecture.

Incorrect Options:

- A). A programming language - Modbus is not a language; it's a protocol.
- B). A network security standard - It lacks built-in security; it is a communication protocol, not a security standard.
- C). A type of industrial machinery - It facilitates communication between machinery, but is not machinery itself.

References:

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

Official ISA/IEC 62443 Study Guide

NEW QUESTION # 53

An industrial facility wants to ensure that only authorized communication reaches its PLCs while minimizing disruption to time-sensitive control processes. Which type of firewall would BEST suit this need?

- A. Unidirectional gateway (data diode)
- B. Basic packet filter firewall without protocol awareness
- C. IACS-specific firewall with deep packet inspection
- D. General-purpose software firewall

Answer: C

Explanation:

ISA/IEC 62443 recommends protocol-aware security controls for IACS networks to protect real-time communications.

Step 1: ICS protocol awareness

IACS-specific firewalls understand industrial protocols such as Modbus, DNP3, and IEC 61850, allowing precise control without breaking deterministic behavior.

Step 2: Deep packet inspection (DPI)

DPI enables inspection of commands and function codes, blocking unauthorized actions while allowing legitimate traffic.

Step 3: Why other options are unsuitable

General-purpose firewalls lack protocol awareness. Data diodes restrict bidirectional control. Basic packet filters cannot inspect commands.

Therefore, the correct choice is IACS-specific firewall with deep packet inspection.

NEW QUESTION # 54

A national standards body wants to represent its country's interests at an international level and adopt global standards locally. What role does this organization fulfill?

- A. National Standardization Body
- B. Global Standards Development Organization (SDO)

- C. Regulatory Agency
- D. Industry Consortium

Answer: A

Explanation:

ISA/IEC 62443 is developed within the international standards system, where national participation is coordinated through National Standardization Bodies (NSBs). These organizations represent their country's interests in international standards committees and manage the adoption of international standards at the national level.

Step 1: Role of a National Standardization Body

An NSB acts as the official representative of a country within international standards organizations such as IEC and ISO. It coordinates national input, votes on standards, and nominates experts to technical committees.

Step 2: Adoption of international standards

NSBs are responsible for adopting international standards as national standards, often with minimal or no modification. This enables consistent global alignment while supporting local implementation.

Step 3: Why other options are incorrect

* Global SDOs develop standards internationally but do not represent individual countries.

* Regulatory agencies enforce laws, not standards.

* Industry consortia represent private-sector interests, not national positions.

Thus, the correct role is National Standardization Body.

NEW QUESTION # 55

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