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## ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q118-Q123):

### NEW QUESTION # 118

What does Layer 1 of the ISO/OSI protocol stack provide?

Available Choices (select all choices that are correct)

- A. Framing, converting electrical signals to data, and error checking
- B. Data encryption, routing, and end-to-end connectivity
- C. The electrical and physical specifications of the data connection

- D. User applications specific to network applications such as reading data registers in a PLC

**Answer: C**

Explanation:

Layer 1 of the ISO/OSI protocol stack is the physical layer, which provides the means of transmitting and receiving raw data bits over a physical medium. It defines the electrical and physical specifications of the data connection, such as the voltage levels, signal timing, cable types, connectors, and pin assignments. It does not perform any data encryption, routing, end-to-end connectivity, framing, error checking, or user applications. These functions are performed by higher layers of the protocol stack, such as the data link layer, the network layer, the transport layer, and the application layer. References: ISO/IEC 7498-1:1994, Section 6.11; ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, Section 3.1.12

### NEW QUESTION # 119

What are three possible entry points (pathways) that could be used for launching a cyber attack?

Available Choices (select all choices that are correct)

- A. LAN, power source, and wireless OD.
- B. LAN, WAN, and hard drive
- C. LAN, portable media, and wireless
- D. LAN, portable media, and hard drives

**Answer: C**

Explanation:

A cyber attack is an attempt to compromise the confidentiality, integrity, or availability of a computer system or network by exploiting its vulnerabilities. A cyber attack can be launched from various entry points, which are the pathways that allow an attacker to access a target system or network. According to the ISA/IEC

62443-3-2 standard, which defines a method for conducting a security risk assessment for industrial automation and control systems (IACS), some of the possible entry points for a cyber attack are:

\* LAN: A local area network (LAN) is a network that connects devices within a limited geographic area, such as a building or a campus. A LAN can be an entry point for a cyber attack if an attacker gains physical or logical access to the network devices, such as switches, routers, firewalls, or servers. An attacker can use various techniques to access a LAN, such as network scanning, spoofing, sniffing, or hijacking. An attacker can also exploit vulnerabilities in the network protocols, services, or applications that run on the LAN. A cyber attack on a LAN can affect the communication and operation of the devices and systems connected to the network, such as IACS.

\* Portable media: Portable media are removable storage devices that can be used to transfer data between different systems or devices, such as USB flash drives, CDs, DVDs, or external hard drives. Portable media can be an entry point for a cyber attack if an attacker uses them to introduce malicious code or data into a target system or device. An attacker can use various techniques to infect portable media, such as autorun, social engineering, or physical tampering. An attacker can also exploit vulnerabilities in the operating systems, drivers, or applications that interact with portable media. A cyber attack using portable media can affect the functionality and security of the systems or devices that use them, such as IACS.

\* Wireless: Wireless is a technology that enables communication and data transmission without physical wires or cables, such as Wi-Fi, Bluetooth, or cellular networks. Wireless can be an entry point for a cyber attack if an attacker intercepts, modifies, or disrupts the wireless signals or data. An attacker can use various techniques to access wireless networks or devices, such as cracking, jamming, or eavesdropping. An attacker can also exploit vulnerabilities in the wireless protocols, standards, or encryption methods. A cyber attack on wireless can affect the availability and reliability of the wireless communication and data transmission, such as IACS.

Therefore, LAN, portable media, and wireless are three possible entry points that could be used for launching a cyber attack.

References:

\* Cybersecurity Risk Assessment According to ISA/IEC 62443-3-21

\* ISA/IEC 62443 Series of Standards2

### NEW QUESTION # 120

What change was introduced in the second edition (2024) of ISA-62443-2-1 compared to the first edition (2010)?

- A. Elimination of duplication of ISMS requirements
- B. Removal of supply chain security considerations
- C. Focus only on individual system components rather than overall system
- D. Introduction of a new PDCA cycle framework

**Answer: A**

Explanation:

The 2024 Second Edition of ISA/IEC 62443-2-1 was restructured to eliminate redundancy with ISO/IEC 27001 and to focus on aspects unique to IACS environments.

From ISA/IEC 62443-2-1:2024 Preface:

"The second edition removes duplication with ISO/IEC 27001 and instead focuses on IACS-specific considerations that complement an organization's overall ISMS." It still aligns with the Plan-Do-Check-Act (PDCA) model but no new framework was introduced - rather, clarity and applicability were improved.

Incorrect Options:

A). The PDCA model was retained, not newly introduced.

C). Supply chain security was actually emphasized, not removed.

D). The focus remains on system-wide security management, not just components.

References:

ISA/IEC 62443-2-1:2024 - "Establishing an IACS Security Program" (Second Edition) ISA/IEC 62443 Study Guide

### NEW QUESTION # 121

Which is NOT a potential consequence for organizations that fail to prioritize control system security?

- A. Unauthorized access, theft, or misuse of data
- **B. Decreased energy consumption**
- C. Violation of legal and regulatory requirements
- D. Personal injury

**Answer: B**

Explanation:

Decreased energy consumption is not a consequence of poor control system security. In fact, security breaches often lead to increased (not decreased) energy consumption due to inefficiencies, system downtime, or damage. Real consequences of failing to prioritize control system security include personal injury (due to process hazards), unauthorized data access, theft or misuse, and violation of regulations (with possible legal penalties).

Reference: ISA/IEC 62443-1-1:2007, Section 4.4; ISA/IEC 62443-2-1:2009, Section 4.2.2 (Potential Consequences Table).

### NEW QUESTION # 122

Why is OPC Classic considered firewall unfriendly?

Available Choices (select all choices that are correct)

- A. OPC Classic is allowed to use only port 80.
- B. OPC Classic is an obsolete communication standard.
- C. OPC Classic works with control devices from different manufacturers.
- **D. OPC Classic uses DCOM, which dynamically assigns any port between 1024 and 65535.**

**Answer: D**

Explanation:

OPC Classic uses DCOM, which dynamically assigns any port between 1024 and 65535. Comprehensive Explanation: OPC Classic is a software interface technology that uses the Distributed Component Object Model (DCOM) protocol to facilitate the transfer of data between different industrial control systems. DCOM is a Microsoft technology that allows applications to communicate across a network. However, DCOM is not designed with security in mind, and it poses several challenges for firewall configuration. One of the main challenges is that DCOM does not use fixed TCP port numbers, but rather negotiates new port numbers within the first open connection. This means that intermediary firewalls can only be used with wide-open rules, leaving a large range of ports open for potential attacks. This makes OPC Classic very "firewall unfriendly" and reduces the security and protection they provide. References:

\* Tofino Security OPC Foundation White Paper

\* Step 2 (for client or server): Configuring firewall settings - GE

\* Secure firewall for OPC Classic - Design World

## NEW QUESTION # 123

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