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The ISA/IEC 62443 series of standards



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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q11-Q16):

NEW QUESTION # 11

Multiusers accounts and shared passwords inherently carry which of the following risks?
Available Choices (select all choices that are correct)

- A. Race conditions
- B. Privilege escalation
- C. Buffer overflow
- D. Unauthorized access

Answer: B

NEW QUESTION # 12

What is the PRIMARY goal of the IACS Security Program (SP) requirements according to ISA/IEC 62443-2-

1?

- A. To implement technologies only
- **B. To mitigate risk**
- C. To eliminate all cybersecurity risks completely
- D. To focus solely on physical security measures

Answer: B

Explanation:

The primary objective of the IACS Security Program, as defined in ISA/IEC 62443-2-1, is to establish a structured and sustainable approach for the mitigation of cybersecurity risks throughout the IACS lifecycle.

"The purpose of the IACS security program is to manage and mitigate risk associated with cybersecurity threats. It defines policies, procedures, and practices to reduce the likelihood and impact of security incidents."

- ISA/IEC 62443-2-1:2010, Clause 4.1 - Security Program Overview

The standard clearly distinguishes between risk mitigation and risk elimination - the latter being infeasible in industrial environments.

References:

ISA/IEC 62443-2-1:2010 - Clause 4.1

ISA/IEC 62443-2-1 - Security management and governance objectives

NEW QUESTION # 13

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

Answer: D

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 # 14

Which is an important difference between IT systems and IACS?
Available Choices (select all choices that are correct)

- A. Routers are not used in IACS networks.
- **B. IACS cybersecurity must address safety issues.**
- C. The IT security priority is availability.
- **D. The IACS security priority is integrity.**

Answer: B,D

Explanation:

IT systems and IACS have different security priorities, requirements, and challenges. According to the ISA/IEC 62443 standards, the security priority for IT systems is confidentiality, which means protecting the data from unauthorized access or disclosure. The

security priority for IACS is integrity, which means ensuring the accuracy and consistency of the data and the functionality of the system. A loss of integrity in an IACS can have severe consequences, such as physical damage, environmental harm, or human injury. Therefore, IACS cybersecurity must address safety issues, which are not typically considered in IT security. Safety is the ability of the system to prevent or mitigate hazardous events that can cause harm to people, property, or the environment. The ISA/IEC 62443 standards provide guidance and best practices for ensuring the safety and security of IACS, as well as the availability and reliability of the system. Availability is the ability of the system to perform its intended function when required, and reliability is the ability of the system to perform its intended function without failure. These properties are also important for IT systems, but they may have different trade-offs and implications for IACS. For example, an IACS may have stricter performance and availability requirements than an IT system, as a delay or disruption in the IACS operation can affect the industrial process and its outcomes. Additionally, an IACS may have longer equipment lifetimes and less frequent maintenance windows than an IT system, which can make patching and updating more difficult and risky. Furthermore, an IACS may use different technologies and architectures than an IT system, such as legacy devices, proprietary protocols, or specialized hardware. These factors can create compatibility and interoperability issues, as well as increase the attack surface and complexity of the IACS. Therefore, IT security solutions and practices may not be sufficient or suitable for IACS, and they may need to be adapted or supplemented by IACS-specific security measures. The ISA/IEC 62443 standards address these differences and provide a comprehensive framework for securing IACS throughout their lifecycle.

References: 1: Security of Industrial Automation and Control Systems - ISAGCA 2: ISA/IEC 62443 Series of Standards - ISA 3: ISA/IEC 62443 Series of Standards | ISAGCA 4: Securing IACS based on ISA/IEC 62443

- Part 1: The Big Picture

* The key differences between IT (Information Technology) systems and IACS (Industrial Automation and Control Systems) are centered on their primary security objectives and operational requirements:

* Option A: The IACS security priority is integrity. This is crucial because any unauthorized modification of data or commands can lead to severe operational disruptions and safety hazards.

* Option C: IACS cybersecurity must address safety issues. Safety is a primary concern in IACS environments where process disruptions or malfunctions can result in harm to human operators or damage to equipment. The primary security priority in traditional IT systems is often confidentiality, not availability as stated in Option B, and routers are commonly used in IACS networks, contrary to Option D.

NEW QUESTION # 15

What is the name of the missing layer in the Open Systems Interconnection (OSI) model shown below?



- A. User
- **B. Transport**
- C. Control
- D. Protocol

Answer: B

Explanation:

The Open Systems Interconnection (OSI) model is a framework that describes the functions of a networking system. The OSI model categorizes the computing functions of the different network components, outlining the rules and requirements needed to support the interoperability of the software and hardware that make up the network¹.

The OSI model consists of seven abstraction layers arranged in a top-down order: Physical, Data Link, Network, Transport, Session, Presentation, and Application. The Transport layer is the fourth layer in the OSI model, and it is responsible for ensuring reliable and efficient data transfer between the Network layer and the Session layer². The Transport layer uses protocols such as Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) to provide end-to-end communication services, such as error detection and correction, flow control, congestion control, and segmentation².

The image that you sent shows a 3D representation of the OSI model, with the layers stacked on top of each other. The missing layer is the Transport layer, which is represented by a pink box with a white arrow pointing to it. The arrow is labeled "TCP, UDP".

1: What is the OSI Model? 7 Network Layers Explained | Fortinet 2: What is OSI Model | 7 Layers Explained

- GeeksforGeeks

NEW QUESTION # 16

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