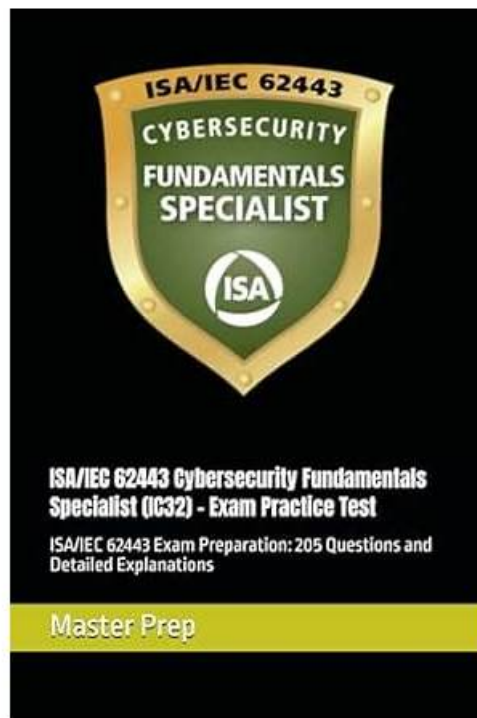


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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q23-Q28):

NEW QUESTION # 23

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

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

Answer: A

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 requirement 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 # 24

What does ISASecure primarily focus on?

- A. Offering assessments for integrator site engineering practices
- B. Certifying IACS products and systems for cybersecurity
- C. Managing asset owner operations and maintenance practices
- D. Developing internal testing labs

Answer: B

Explanation:

ISASecure is a conformity assessment scheme developed under the ISA Security Compliance Institute (ISCI), an affiliate of ISA. Its primary focus is the certification of IACS (Industrial Automation and Control System) products, systems, and supplier processes for cybersecurity. The program's aim is to facilitate and ensure the cybersecurity of automation and control systems by certifying that products and systems meet the requirements set forth in the ISA/IEC 62443 standards. ISASecure offers certifications such as ISASecure EDSA (Embedded Device Security Assurance), SSA (System Security Assurance), and CSA (Component Security Assurance), all of which are tightly mapped to the 62443 series requirements.

Reference: ISA/IEC 62443-4-2:2019, Section 1; ISASecure Certification Program Description, 2024.

NEW QUESTION # 25

Which of the following starts at a high level and includes all ANSI/ISA-95 Level 0,1,2,3,4 equipment and information systems?

- A. Zone model

- B. Reference model
- C. Asset model
- D. Reference architecture

Answer: B

Explanation:

The reference model described in ISA/IEC 62443-1-1 (see Figure 2) starts at a high level and encompasses all levels of the ISA-95 model (Levels 0 to 4), which range from field devices up to business logistics systems.

This model provides a holistic, layered view of all the equipment, systems, and information flows in industrial automation.

Reference: ISA/IEC 62443-1-1:2007, Section 4.2 ("Reference Model"); Figure 2 (Relationship to ANSI/ISA-95 Levels).

NEW QUESTION # 26

Which factor drives the selection of countermeasures?

Available Choices (select all choices that are correct)

- A. Foundational requirements
- B. Security levels
- C. Output from a risk assessment
- D. System design

Answer: C

Explanation:

The selection of countermeasures is driven by the output from a risk assessment, which identifies the risks and their associated likelihood and consequences for each zone and conduit in the industrial automation and control system (IACS). The risk assessment also determines the target security level (SL-T) for each zone and conduit, which represents the desired level of protection against the identified threats. The countermeasures are then selected based on the SL-T and the existing security level (SL-A) of the zone and conduit, as well as the cost and feasibility of implementation. The countermeasures should aim to reduce the risk to an acceptable level by increasing the SL-A to meet or exceed the SL-T. References: ISA/IEC 62443-3-2:2018 - Security risk assessment for system design, ISA/IEC 62443-3-3:2013 - System security requirements and security levels, ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course

NEW QUESTION # 27

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. The IACS security priority is integrity.
- C. IACS cybersecurity must address safety issues.
- D. The IT security priority is availability.

Answer: B,C

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 # 28

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