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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q54-Q59):

NEW QUESTION # 54

Which layer deals with data format conversion and encryption?

- A. Presentation
- B. Application
- C. Data link
- D. Session

Answer: A

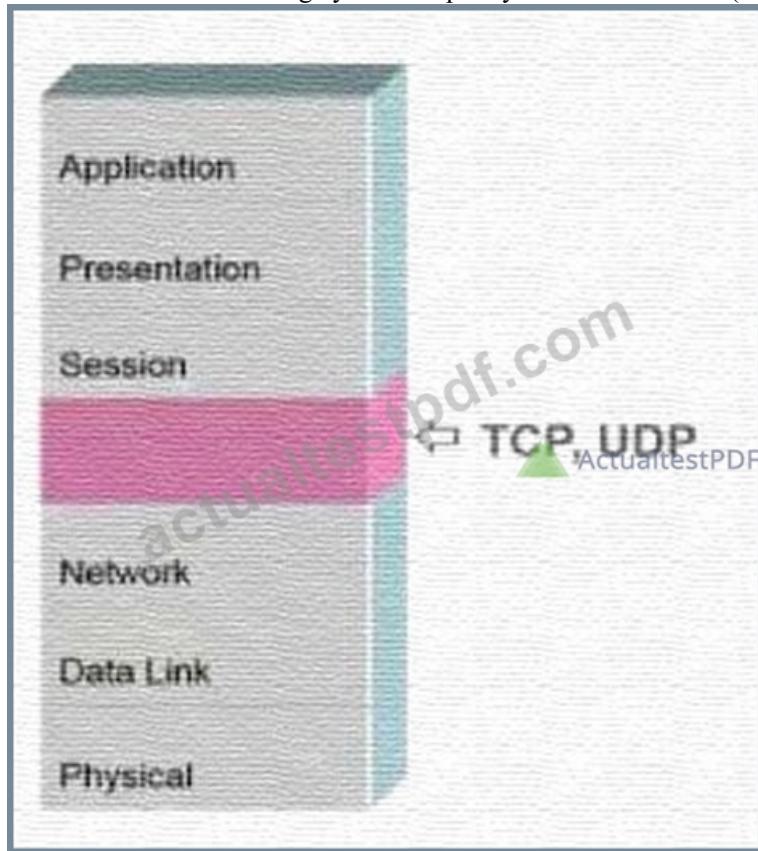
Explanation:

The Presentation layer (Layer 6) of the OSI model is responsible for data format conversion (such as character set translation) and encryption/decryption of messages. This layer ensures that data sent from the application layer of one system can be read by the application layer of another, regardless of differences in data representation.

Reference: ISA/IEC 62443-1-1:2007, Section 3.2.5 (OSI Reference Model), Table 3; ISO/IEC 7498-1:1994.

NEW QUESTION # 55

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



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

Answer: D

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'.

NEW QUESTION # 56

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

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 # 57

Which model describes relationships between assets within an industrial automation and control system?

- A. Zone model
- B. Reference architecture
- C. Security level model
- D. Asset model

Answer: D

Explanation:

The asset model is used in ISA/IEC 62443 to represent and describe the relationships and dependencies between different assets in an IACS environment. This model helps organizations identify and document assets, their interconnections, and their significance for operational and cybersecurity purposes. The zone model builds upon the asset model for segmentation, but the asset model itself establishes the foundational relationships.

Reference: ISA/IEC 62443-1-1:2007, Section 4.3.1 ("Asset Model"); Figure 3 ("Example asset model for IACS").

NEW QUESTION # 58

What is the FIRST step required in implementing ISO 27001?

Available Choices (select all choices that are correct)

- A. Define an information security policy.
- B. Implement strict security controls.
- C. Perform a security risk assessment.
- D. **Create a security management organization.**

Answer: D

NEW QUESTION # 59

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