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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q190-Q195):

NEW QUESTION # 190

Which statement is TRUE regarding application of patches in an IACS environment?

Available Choices (select all choices that are correct)

- A. Patches should be applied as soon as they are available.
- B. Patches should be applied within one month of availability.
- C. Patches never should be applied in an IACS environment.
- **D. Patches should be applied based on the organization's risk assessment.**

Answer: D

Explanation:

Patches are software updates that fix bugs, vulnerabilities, or improve performance or functionality. Patches are important for maintaining the security and reliability of an IACS environment, but they also pose some challenges and risks. Applying patches in an IACS environment is not as simple as in an IT environment, because patches may affect the availability, integrity, or safety of the IACS. Therefore, patches should not be applied blindly or automatically, but based on the organization's risk assessment. The risk assessment should consider the following factors: 1

- * The severity and likelihood of the vulnerability that the patch addresses
 - * The impact of the patch on the IACS functionality and performance
 - * The compatibility of the patch with the IACS components and configuration
 - * The availability of a backup or recovery plan in case the patch fails or causes problems
 - * The testing and validation of the patch before applying it to the production system
 - * The communication and coordination with the stakeholders involved in the patching process
 - * The documentation and auditing of the patching activities and results
- References: ISA TR62443-2-3 - Security for industrial automation and control systems, Part 2-3: Patch management in the IACS environment

NEW QUESTION # 191

Why is patch management more difficult for IACS than for business systems?

Available Choices (select all choices that are correct)

- **A. Patching a live automation system can create safety risks.**
- B. Many more approvals are required.
- C. Overtime pay is required for technicians.
- D. Business systems automatically update.

Answer: A

NEW QUESTION # 192

What is Modbus?

- A. A network security standard
- **B. A serial communications protocol**

- C. A type of industrial machinery
- D. A programming language

Answer: B

Explanation:

Modbus is a serial communications protocol originally published by Modicon (now Schneider Electric) in 1979 for use with its programmable logic controllers (PLCs). It has become a de facto standard protocol for communication between industrial electronic devices. Modbus allows devices, such as sensors and instruments, to communicate their data to a controller or computer. The protocol can operate over serial lines (RS-232, RS-485) and has been extended for TCP/IP networks (Modbus TCP). It is not a programming language, network security standard, or a type of industrial machinery. Its simplicity and open nature have made it widespread in industrial environments, but it has minimal built-in security, which is a significant consideration in cybersecurity for industrial control systems.

Reference: ISA/IEC 62443-3-3:2013, Section 4.2.3, and ISA-62443-1-1:2007, Section 3.2.1.

NEW QUESTION # 193

Which is a role of the application layer?

Available Choices (select all choices that are correct)

- A. Includes protocols specific to network applications such as email, file transfer, and reading data registers in a PLC
- B. Delivers and formats information, possibly with encryption and security
- C. Includes user applications specific to network applications such as email, file transfer, and reading data registers in a PLC
- D. Provides the mechanism for opening, closing, and managing a session between end-user application processes

Answer: A,B

Explanation:

The application layer is the topmost layer of the OSI model, which provides the interface between the user and the network. It includes protocols specific to network applications such as email, file transfer, and reading data registers in a PLC. These protocols deliver and format information, possibly with encryption and security, to ensure reliable and meaningful communication between different applications. The application layer does not include user applications, which are separate from the network protocols. The application layer also does not provide the mechanism for opening, closing, and managing a session between end-user application processes, which is the function of the session layer. References:

ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, page 181 Using the ISA/IEC 62443 Standards to Secure Your Control System, page 82 The application layer in network protocols, such as in the OSI model or the TCP/IP protocol suite, is primarily responsible for providing services directly to user applications. This layer is involved in:

Option A: Including protocols specific to network applications such as email, file transfer, and industrial protocols like reading data registers in a Programmable Logic Controller (PLC). This is a core function of the application layer as it facilitates specific high-level networking capabilities.

Option D: Delivering and formatting information, which can include encryption and ensuring the security of data as it is transmitted across the network. This includes protocols like HTTP for web browsing which can encrypt data via HTTPS, SMTP for secure email transmission, and FTP for secure file transfer.

NEW QUESTION # 194

What is one of the primary causes of cyber-related production losses in process control systems?

- A. Hardware failure
- B. Network congestion
- C. Human error
- D. Malware incidents

Answer: D

Explanation:

Malware incidents are cited in ISA/IEC 62443 documentation and industry case studies as one of the primary causes of cyber-related production losses in process control environments. Such incidents can result in equipment shutdowns, process interruptions, and loss of visibility or control, leading directly to financial and operational impacts. While human error and hardware failure are also causes of downtime, in the context of "cyber-related" incidents, malware is the main contributor.

Reference: ISA/IEC 62443-3-3:2013, Section 4.2.3; ISA/IEC 62443-2-1:2009, Section 4.3.4; Industry case studies (e.g., "Stuxnet", "WannaCry" events).

NEW QUESTION # 195

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