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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q177-Q182):

NEW QUESTION # 177

What is a requirement for product security development lifecycles?

- A. Agile development
- **B. Risk management**
- C. Defense-in-depth strategy
- D. Continuous integration

Answer: B

Explanation:

The ISA/IEC 62443-4-1 standard defines the requirements for a secure product development lifecycle for IACS products. One of the core requirements is "risk management" - the systematic process of identifying, evaluating, and mitigating security risks throughout the product lifecycle. This ensures that security is built in from the early design phases through to maintenance and decommissioning. While agile and continuous integration can be useful development methods, they are not specific requirements of the standard. Defense-in- depth is a security principle, not a lifecycle process requirement.

Reference: ISA/IEC 62443-4-1:2018, Section 4.2.3 ("Security risk management").

NEW QUESTION # 178

How many security levels are in the ISASecure certification program?

Available Choices (select all choices that are correct)

- **A. 0**
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

The ISASecure certification program, aligned with the ISA/IEC 62443 standards, defines three distinct security levels that categorize the robustness of industrial control systems against known cybersecurity threats.

These levels are designed to provide a scalable approach to securing industrial automation and control systems, with each level offering a higher degree of security. The levels are typically identified as SL1 (Security Level 1), SL2 (Security Level 2), and SL3 (Security Level 3), each addressing increasingly stringent security capabilities and resilience against cyber attacks.

NEW QUESTION # 179

Which of the following ISA-99 (IEC 62443) Reference Model levels is named correctly?

- **A. Level 3: Operations Management**
- B. Level 4: Process
- C. Level 2: Quality Control
- D. Level 1: Supervisory Control

Answer: A

Explanation:

According to ISA/IEC 62443-1-1:2007 (Terminology, Concepts, and Models), the functional levels of the Industrial Automation and Control System (IACS) are derived from the Purdue Enterprise Reference Architecture (PERA). These levels are defined as follows:

Level

Function

Description

Level 0

Process

The actual physical process, including sensors and actuators.

Level 1

Basic Control

Devices responsible for direct control, such as PLCs and RTUs.

Level 2

Area Supervisory Control

Supervisory systems such as HMIs and SCADA, responsible for monitoring/control.

Level 3

Site Manufacturing Operations Management

Operations management systems such as MES, production scheduling, and workflow.

Level 4

Business Planning and Logistics

Enterprise-level systems such as ERP, supply chain, and logistics.

Analysis of Each Option:

Option A: Level 1: Supervisory Control

Incorrect. Level 1 is defined as Basic Control, not Supervisory Control. Supervisory functions appear at Level 2.

Option B: Level 2: Quality Control

Incorrect. Level 2 is defined as Area Supervisory Control, not Quality Control.

Option C: Level 3: Operations Management

Correct. Level 3 is specifically identified as Operations Management, which includes manufacturing execution and scheduling functions.

Option D: Level 4: Process

Incorrect. Level 4 corresponds to Business Planning and Logistics. The Process is represented at Level 0.

References:

ISA/IEC 62443-1-1:2007, Section 6.2 - "Industrial automation and control system levels" ISA/IEC 62443-3-3 - Security for industrial automation and control systems: System security requirements and security levels ISA Training Materials - ISA/IEC 62443 Cybersecurity Fundamentals Specialist

NEW QUESTION # 180

Which of the following is a cause for the increase in attacks on IACS?

Available Choices (select all choices that are correct)

- A. Use of proprietary communications protocols
- B. Knowledge of exploits and tools readily available on the Internet
- C. The move away from commercial off the shelf (COTS) systems, protocols, and networks
- D. Fewer personnel with system knowledge having access to IACS

Answer: A,B

Explanation:

One of the reasons for the increase in attacks on IACS is the availability of information and tools that can be used to exploit vulnerabilities in these systems. The Internet provides a platform for hackers, researchers, and activists to share their knowledge and techniques for compromising IACS. Some examples of such information and tools are:

* Stuxnet: A sophisticated malware that targeted the Iranian nuclear program in 2010. It exploited four zero-day vulnerabilities in Windows and Siemens software to infect and manipulate the programmable logic controllers (PLCs) that controlled the centrifuges. Stuxnet was widely analyzed and reported by the media and security experts, and its source code was leaked online¹.

* Metasploit: A popular penetration testing framework that contains modules for exploiting various IACS components and protocols. For instance, Metasploit includes modules for attacking Modbus, DNP3, OPC, and Siemens S7 devices².

* Shodan: A search engine that allows users to find devices connected to the Internet, such as webcams, routers, printers, and IACS components. Shodan can reveal the location, model, firmware, and configuration of these devices, which can be used by attackers to identify potential targets and vulnerabilities³.

* ICS-CERT: A website that provides alerts, advisories, and reports on IACS security issues and incidents. ICS-CERT also publishes vulnerability notes and mitigation recommendations for various IACS products and vendors⁴. These sources of information and tools can be useful for legitimate purposes, such as security testing, research, and education, but they can also be misused by malicious actors who want to disrupt, damage, or steal from IACS. Therefore, IACS owners and operators should be aware of the threats and risks posed by the Internet and implement appropriate security measures to protect their systems. References:

* The increase in attacks on Industrial Automation and Control Systems (IACS) can be attributed to several factors, including: A.

Use of proprietary communications protocols: These can pose security risks because they may not have been designed with security in mind and are often not as well-tested against security threats as more standard protocols. C. Knowledge of exploits and tools readily available on the Internet: The availability of information about vulnerabilities and exploits on the internet has made it easier for

attackers to target IACS.

* The other options, B and D, are incorrect because: B. The move towards commercial off-the-shelf (COTS) systems, protocols, and networks actually increases risk because these systems are more likely to be known and targeted by attackers, compared to proprietary systems which might benefit from security through obscurity. D. There is actually an increase in risk with more personnel with system knowledge because it enlarges the attack surface - each individual with system knowledge can potentially become a vector for an attack, either maliciously or accidentally.

NEW QUESTION # 181

What is OPC?

Available Choices (select all choices that are correct)

- **A. An open standard protocol for the communication of real-time data between devices from different manufacturers**
- B. An open standard serial communications protocol widely used in industrial manufacturing environments
- C. An open standard protocol for real-time field bus communication between automation technology devices
- D. A vendor-specific proprietary protocol for the communication of real-time plant data between control devices

Answer: A

NEW QUESTION # 182

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