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## Useful ISA - ISA-IEC-62443 - ISA/IEC 62443 Cybersecurity Fundamentals Specialist Online Lab Simulation

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## ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q76-Q81):

### NEW QUESTION # 76

Which is the implementation of PROFIBUS over Ethernet for non-safety-related communications?

Available Choices (select all choices that are correct)

- A. PROF1SAFE
- B. PROFIBUS DP
- C. PROFINET
- D. PROFIBUS PA

**Answer: C**

Explanation:

PROFINET is the implementation of PROFIBUS over Ethernet for non-safety-related communications. It is a standard for industrial

Ethernet that enables real-time data exchange between automation devices, controllers, and higher-level systems. PROFINET uses standard Ethernet hardware and software, but adds a thin software layer that allows deterministic and fast communication. PROFINET supports different communication profiles for different applications, such as motion control, process automation, and functional safety. PROFINET is compatible with PROFIBUS, and allows seamless integration of existing PROFIBUS devices and networks<sup>123</sup> References: 1: What is PROFINET? - PI North America 2: PROFINET - Wikipedia 3: PROFINET Technology and Application - System Description

#### NEW QUESTION # 77

Safety management staff are stakeholders of what security program development?

Available Choices (select all choices that are correct)

- A. CSMS
- B. ERM
- C. SPRP
- D. CSA

**Answer: A**

Explanation:

Safety management staff are stakeholders of the CSMS, which stands for Cybersecurity Management System. The CSMS is a framework for managing the cybersecurity of industrial automation and control systems (IACS) based on the ISA/IEC 62443-2-1 standard<sup>1</sup>. The CSMS defines the objectives, policies, metrics, and governance for the overall ICS security program<sup>2</sup>. The CSMS also includes the processes for risk assessment, security design, implementation, monitoring, and improvement<sup>3</sup>. Safety management staff are involved in the CSMS development and implementation, as they are responsible for ensuring the safety of the IACS and the people, environment, and assets that depend on it. Safety management staff need to coordinate with the security management staff to align the safety and security requirements, identify and mitigate the safety risks arising from cyber threats, and monitor and respond to safety incidents caused by cyberattacks.

References:

- \* 1: ISA/IEC 62443-2-1: Establishing an Industrial Automation and Control Systems Security Program, ISA, 2010.
- \* 2: A Practical Approach to Adopting the IEC 62443 Standards - ISAGCA
- \* 3: ISA ISA-IEC-62443 ISA/IEC 62443 Cybersecurity Fundamentals Specialist Online Training - Exam4Training
- \* [4]: Using the ISA/IEC 62443 Standards to Secure Your Control System, ISA, 2018.

#### NEW QUESTION # 78

What is a commonly used protocol for managing secure data transmission over a Virtual Private Network (VPN)?

Available Choices (select all choices that are correct)

- A. MPLS
- B. HTTPS
- C. SSH
- D. IPsec

**Answer: D**

Explanation:

IPsec is a commonly used protocol for managing secure data transmission over a VPN. IPsec stands for Internet Protocol Security and it is a set of standards that define how to encrypt and authenticate data packets that travel between two or more devices over an IP network. IPsec can operate in two modes: transport mode and tunnel mode. In transport mode, IPsec only encrypts the payload of the IP packet, leaving the header intact. In tunnel mode, IPsec encrypts the entire IP packet and encapsulates it in a new IP header. Tunnel mode is more secure and more suitable for VPNs, as it can protect the original source and destination addresses of the IP packet from eavesdropping or spoofing. IPsec uses two main protocols to provide security services: Authentication Header (AH) and Encapsulating Security Payload (ESP). AH provides data integrity and source authentication, but not confidentiality. ESP provides data integrity, source authentication, and confidentiality. IPsec also uses two protocols to establish and manage security associations (SAs), which are the parameters and keys used for encryption and authentication: Internet Key Exchange (IKE) and Internet Security Association and Key Management Protocol (ISAKMP). IKE is a protocol that negotiates and exchanges cryptographic keys between two devices. ISAKMP is a protocol that defines the format and structure of the messages used for key exchange and SA management.

References:

ISA/IEC 62443-3-3:2018, Section 4.2.3.7.1, VPN<sup>1</sup>

ISA/IEC 62443-4-2:2019, Section 4.2.3.7.1, VPN

ISA/IEC 62443 Cybersecurity Fundamentals Specialist Study Guide, Section 5.3.2, VPN  
ISA/IEC 62443 Cybersecurity Fundamentals Specialist Exam Specification, Section 5.3.2, VPN

#### NEW QUESTION # 79

What type of security level defines what a component or system is capable of meeting?

Available Choices (select all choices that are correct)

- A. Design security level
- **B. Capability security level**
- C. Achieved security level
- D. Target security level

**Answer: B**

Explanation:

According to the IEC 62443 standard, a capability security level (SL-C) is defined as "the security level that a component or system is capable of meeting when it is properly configured and protected by an appropriate set of security countermeasures" 1. A component or system can have different SL-Cs for different security requirements, depending on its design and implementation. The SL-C is determined by testing the component or system against a set of security test cases that correspond to the security requirements. The SL-C is not dependent on the actual operational environment or configuration of the component or system, but rather on its inherent capabilities. References:

\* IEC 62443 - Wikipedia

#### NEW QUESTION # 80

Which part of the ISA/IEC 62443 series describes a methodology to develop quantitative metrics?

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

**Answer: D**

Explanation:

ISA/IEC 62443-1-3 specifically provides guidance on developing quantitative metrics for evaluating the effectiveness of IACS security programs. This part introduces models and methods to create meaningful security program ratings, allowing organizations to quantitatively measure their security maturity and the effectiveness of security controls over time.

Reference: ISA/IEC 62443-1-3:2017, Introduction and Scope.

#### NEW QUESTION # 81

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