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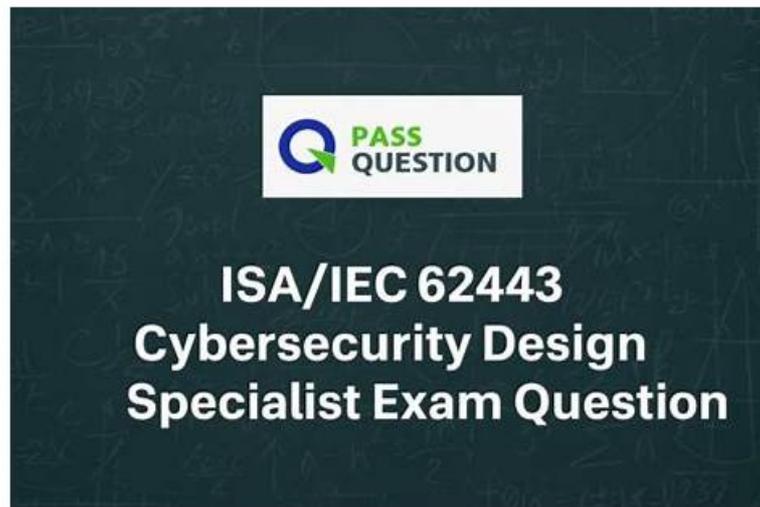
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ISA/IEC 62443 Cybersecurity Fundamentals Specialist Sample Questions (Q23-Q28):

NEW QUESTION # 23
Which statement is TRUE regarding Intrusion Detection Systems (IDS)?
Available Choices (select all choices that are correct)

- A. They require a small amount of care and feeding
- B. They are effective against known vulnerabilities.
- C. They are very inexpensive to design and deploy.
- D. Modern IDS recognize IACS devices by default.

Answer: B

Explanation:

Intrusion detection systems (IDS) are tools that monitor network traffic and detect suspicious or malicious activity based on predefined rules or signatures. They are effective against known vulnerabilities, as they can alert the system administrators or security personnel when they encounter a match with a known attack pattern or behavior. However, IDS have some limitations and challenges, especially when applied to industrial automation and control systems (IACS). Some of these are:

* Modern IDS do not recognize IACS devices by default, as they are designed for general-purpose IT networks and protocols. Therefore, they may generate false positives or negatives when dealing with IACS-specific devices, protocols, or traffic patterns. To overcome this, IDS need to be customized or adapted to the IACS environment and context, which may require additional expertise and resources.

* They are not very inexpensive to design and deploy, as they require careful planning, configuration, testing, and maintenance. They also need to be integrated with other security tools and processes, such as firewalls, antivirus, patch management, incident response, etc. Moreover, they may introduce additional costs and risks, such as network performance degradation, data privacy issues, or legal liabilities.

* They are not effective against unknown or zero-day vulnerabilities, as they rely on predefined rules or signatures that may not cover all possible attack scenarios or techniques. Therefore, they may fail to detect novel or sophisticated attacks that exploit new or undiscovered vulnerabilities. To mitigate this, IDS need to be complemented with other security measures, such as anomaly detection, threat intelligence, or machine learning.

* They require a significant amount of care and feeding, as they need to be constantly updated, tuned, and monitored. They also generate a large amount of data and alerts, which may overwhelm the system administrators or security personnel. Therefore, they need to be supported by adequate tools and processes, such as data analysis, alert filtering, prioritization, correlation, or visualization.

References: ISA/IEC 62443-2-1:2010 - Establishing an industrial automation and control system security program, ISA/IEC 62443-3-3:2013 - System security requirements and security levels, ISA/IEC 62443 Cybersecurity Fundamentals Specialist Training Course, [Enhancing Modbus/TCP-Based Industrial Automation and Control Systems Security Using Intrusion Detection Systems]

NEW QUESTION # 24

If an industrial control system experiences frequent unexpected shutdowns causing downtime, which SP Element activities should be reviewed to improve system availability?

- A. SP Element 2 - Change control
- B. SP Element 8 - Backup restoration
- C. SP Element 1 - Supply chain security
- D. SP Element 7 - Logging and event reporting

Answer: B

Explanation:
Frequent unexpected shutdowns relate directly to system availability and recoverability. According to ISA
/IEC 62443-2-1, SP Element 8 focuses on:
Backup procedures
Restoration processes
Business continuity in response to disruptions
"SP Element 8 addresses recovery and continuity controls such as backups, restoration testing, and fallback procedures that ensure timely recovery from outages or system failures."
- ISA/IEC 62443-2-1:2010, Clause 4.3.4 - SP Element 8
While SP Element 2 and 7 are also important, Element 8 is most directly relevant for ensuring rapid restoration of service after unexpected shutdowns.
References:
ISA/IEC 62443-2-1:2010 - SP Element 8
ISA/IEC 62443-1-1 - System availability principles

NEW QUESTION # 25

In an IACS system, a typical security conduit consists of which of the following assets?

- A. Ferrous, thickwall, and threaded conduit including raceways
- B. Wiring, routers, switches, and network management devices
- C. Controllers, sensors, transmitters, and final control elements
- D. Power lines, cabinet enclosures, and protective grounds

Answer: B

Explanation:
In ISA/IEC 62443, a conduit is a logical or physical communication path used to connect security zones and is typically composed of:
Routers and switches
Network cabling (wiring)
Firewalls and network management devices
"A conduit is used to implement the flow of data between zones, and includes the communication hardware and associated logical controls such as firewalls, switches, and routers."
- ISA/IEC 62443-1-1:2007, Clause 3.3.44 - Conduit
This differs from physical electrical conduits, which are not a cybersecurity concept.
References:
ISA/IEC 62443-1-1:2007 - Clause 3.3.44
ISA/IEC 62443-3-2 - Zone and Conduit Model (Clause 5.3)

NEW QUESTION # 26
Which layer in the Open Systems Interconnection (OSI) model would include the use of the File Transfer Protocol (FTP)?
Available Choices (select all choices that are correct)

- A. Session layer
- B. Application layer
- C. Transport layer
- D. Data link layer

Answer: B

Explanation:
The File Transfer Protocol (FTP) is an application layer protocol that moves files between local and remote file systems. It runs on top of TCP, like HTTP. To transfer a file, 2 TCP connections are used by FTP in parallel: control connection and data connection. The control connection is used to send commands and responses between the client and the server, while the data connection is used to transfer the actual file. FTP is one of the standard communication protocols defined by the TCP/IP model and it does not fit neatly into the OSI model. However, since the OSI model is a reference model that describes the general functions of each layer, FTP can be considered as an application layer protocol in the OSI model, as it provides user services and interfaces to the network. The application layer is the highest layer in the OSI model and it is responsible for providing various network services to the users, such as email, web browsing, file transfer, remote login, etc. The application layer interacts with the presentation layer, which is responsible for data formatting, encryption, compression, etc. The presentation layer interacts with the session layer, which is responsible for establishing, maintaining, and terminating sessions between applications. The session layer interacts with the transport layer, which is responsible for reliable end-to-end data transfer and flow control. The transport layer interacts with the network layer, which is responsible for routing and addressing packets across different networks. The network layer interacts with the data link layer, which is responsible for framing, error detection, and medium access control. The data link layer interacts with the physical layer, which is responsible for transmitting and receiving bits over the physical medium. References:
* File Transfer Protocol (FTP) in Application Layer1
* FTP Protocol2
* What OSI layer is FTP?3

NEW QUESTION # 27
A company needs to create a standardized interface for exchanging real-time plant data between heterogeneous control devices while maintaining a structured organization of data elements such as folders, classes, and methods. Which feature of OPC supports this requirement?

- A. OPC Unified Architecture's browsable namespace
- B. OPC Classic's use of Microsoft OLE and COM technologies
- C. OPC Classic aware firewalls analyzing DCOM
- D. OPC Tunnel Applications for firewalls

Answer: A

Explanation:

OPC Unified Architecture (OPC UA) introduces a browsable namespace that supports hierarchical organization of data including folders, classes, methods, and object types. This is critical for structured access to real-time and historical data across heterogeneous control systems.

"OPC UA provides a flexible, secure, and platform-independent mechanism for exchanging information. Its browsable namespace allows structured navigation of nodes, types, and attributes in a hierarchical format."

- OPC UA Specification, Part 3 - Address Space Model

This is a key improvement over OPC Classic, which was tightly coupled to DCOM and lacked standardized structures across systems.

References:

OPC UA Specification - Part 3: Address Space Model

ISA/IEC 62443-3-3 - SR 3.1 RE: Secure data exchange mechanisms

NEW QUESTION # 28

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