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Industrial Control System (ICS) - Correct Answer-

A device or set of devices that managed commands directs or regulates the behaviour or other devices or system, bridges cyber to physical, a device that can influence the real world

Relays - Correct Answer-

An electrically operated switch. Complicated to configure cumbersome and expensive

Pneumatics - Correct Answer-

The technique of using gases for power transmission.

Control Loops - Correct Answer-

calculating and controlling an environment or process based on feedback.

Proportional Integral Derivative (PID) - Correct Answer-

a control loop feedback mechanism (controller) widely used in industrial control systems. Calculates an error value as the difference between a measured process variable and a desired setpoint.

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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q53-Q58):

NEW QUESTION # 53

Implementing VLANs can provide which of the following?

- A. Segmenting control device traffic from other network services
- B. Sandboxing ICS application memory from other system resources
- C. Stopping unauthorized access to ICS controller diagnostic ports
- D. Separation of duties for different guest OSES on a virtual host

Answer: A

Explanation:

VLANs (Virtual LANs) allow logical segmentation of a physical network, which can be used to separate control device traffic from other network services (A), improving security and performance.

Sandboxing (B) relates to application or OS memory isolation, not VLANs.

Separation of duties for guest OSES (C) is related to virtualization, not VLANs.

Preventing access to diagnostic ports (D) requires port security or access control, not VLAN segmentation alone.

GICSP highlights VLANs as a fundamental technique for network segmentation in ICS security architectures.

Reference:

GICSP Official Study Guide, Domain: ICS Security Architecture & Design

NIST SP 800-82 Rev 2, Section 5.5 (Network Segmentation)

GICSP Training on VLANs and Network Security Controls

NEW QUESTION # 54

What kind of data could be found on a historian?

- A. Diagrams depicting an overview of the process
- B. Information for supervising lower-level controllers in real-time
- C. Runtime libraries that software programs use
- D. Information needed for billing customers

Answer: D

Explanation:

An industrial historian is a specialized database system designed to collect, store, and retrieve time-series data from industrial control systems. It primarily stores process data, event logs, and measurements over time, which are essential for trend analysis, reporting, and regulatory compliance.

Historian data is often used for billing purposes (A), especially in utilities and process industries, where consumption data is recorded and later used to generate customer bills.

Option (B), real-time supervision of lower-level controllers, is typically handled by SCADA or control system software, not the historian itself.

(C) Diagrams are stored in engineering tools or documentation repositories, not historians.

(D) Runtime libraries are software components and not stored on historians.

The GICSP curriculum clarifies that historians are central to operational analytics and long-term data storage but are not real-time control systems themselves.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

NIST SP 800-82 Rev 2, Section 6.3 (Data Historians and Data Acquisition) GICSP Training Materials on ICS Data Management

NEW QUESTION # 55

Which type of device is the following configuration setting from?
deny modbus function write-multiple-holdingregisters

- A. NIDS

- B. SIEM
- **C. Application firewall**
- D. Network firewall

Answer: C

Explanation:

The configuration line denies a specific Modbus function code, which is a command-level filter for industrial protocols.

This type of control is typical of an application firewall (D) designed to understand and filter industrial control system protocols at the application layer.

A network firewall (A) typically filters traffic based on IP addresses, ports, and protocols, but not protocol function codes.

NIDS (B) detects and alerts on suspicious traffic but does not usually enforce blocking rules.

SIEM (C) collects and analyzes logs, not real-time blocking.

GICSP emphasizes the role of application-layer firewalls in protecting ICS protocols like Modbus.

Reference:

GICSP Official Study Guide, Domain: ICS Security Architecture & Design

NIST SP 800-82 Rev 2, Section 5.5 (Application Layer Security)

GICSP Training on ICS Protocol Security Controls

NEW QUESTION # 56

During a plant upgrade an architect needs to connect legacy IEDs to a new TCP/IP instrumentation LAN. The IEDs only have RS-232 communication interfaces available. What would best be used to connect the IEDs?

- **A. Communications Gateway**
- B. Data diode
- C. Industrial switch
- D. Engineering workstation

Answer: A

Explanation:

Legacy devices using RS-232 interfaces require a communications gateway (C) to translate between the serial communication protocol and the new TCP/IP network.

A data diode (A) is a unidirectional security device, not a protocol translator.

An engineering workstation (B) is a computer, not a protocol conversion device.

An industrial switch (D) operates at the Ethernet layer and does not perform protocol conversion.

GICSP emphasizes gateways as essential for integrating legacy ICS devices into modern IP networks while maintaining protocol integrity.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

NIST SP 800-82 Rev 2, Section 3.4 (Legacy Protocol Integration)

GICSP Training on ICS Network Architecture and Protocols

NEW QUESTION # 57

Which resource includes a standardized categorization of common software vulnerabilities?

- A. CVSS
- B. CSC
- C. CIP
- **D. CWE**

Answer: D

Explanation:

The Common Weakness Enumeration (CWE) (A) is a comprehensive list and taxonomy of common software weaknesses and vulnerabilities. It provides standardized names and definitions that help organizations identify and mitigate software security issues.

CVSS (B) is a scoring system used to rate the severity of vulnerabilities but does not categorize them.

CSC (C) refers to Critical Security Controls, a set of best practices, not a vulnerability catalog.

CIP (D) relates to Critical Infrastructure Protection standards, not vulnerability taxonomy.

Reference:

NEW QUESTION # 58

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