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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q45-Q50):

NEW QUESTION # 45

What is a characteristic of the Ladder Diagram approach for programming controllers?

- A. Based on circuit diagrams of relay logic hardware and operates on rules rather than procedures
- B. Uses steps to execute commands and transitions to wait for conditions to move forward
- C. Is similar to a low level programming language like assembly
- D. May be similar to high level computer programming languages like C

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Ladder Diagram (LD) programming is a graphical language used for PLC programming that visually resembles circuit diagrams of relay logic hardware (D). It is rule-based and designed to be intuitive for electricians and engineers familiar with relay control systems.

It is not similar to low-level assembly (A) or high-level languages like C (B).

Option (C) describes Sequential Function Charts (SFC), which use steps and transitions.

GICSP emphasizes Ladder Diagrams as a foundational method in industrial control logic design.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

IEC 61131-3 Standard on PLC Programming Languages

GICSP Training on PLC Programming Methods

NEW QUESTION # 46

What is a recommended practice for configuring enforcement boundary devices in an ICS control network?

- A. Enable full packet collection for all allowed and denied traffic rules on next-generation firewalls
- B. Create a rule which drops inbound packets containing a source address from within the protected network
- C. Use an egress policy that allows everything out except for that which is explicitly denied
- D. Create one rule for each authorized conversation in a stateless access control list

Answer: A

Explanation:

Enforcement boundary devices like firewalls play a critical role in ICS network security. A best practice is to:

Enable full packet collection for all allowed and denied traffic (B) on next-generation firewalls. This facilitates deep inspection, detailed logging, and auditing, which are vital for detecting anomalous or malicious activity.

Other options are less effective or counterproductive:

(A) Dropping inbound packets with source addresses from the protected network is generally illogical and may disrupt normal traffic.

(C) Stateless access control is less secure and less manageable than stateful inspection.

(D) Default allow egress policies increase risk by permitting unnecessary outbound traffic.

GICSP stresses detailed logging and stateful inspection as core security controls for enforcement points.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response NIST SP 800-82 Rev 2, Section 5.5

(Network Security and Firewalls) GICSP Training on Network Boundary Protection

NEW QUESTION # 47

Which of the following would use round-robin process scheduling?

- A. Embedded device on the plant floor
- B. Operator workstation in the control room
- C. Temperature sensor in the field
- D. Data-diode at an enforcement boundary

Answer: B

Explanation:

Round-robin scheduling is a common time-sharing CPU scheduling algorithm used in general-purpose operating systems to allocate processor time fairly among processes.

An operator workstation (C) typically runs a general-purpose OS (like Windows), which uses round-robin or similar scheduling algorithms.

Embedded devices (A, B) often use real-time operating systems (RTOS) with priority-based or deterministic scheduling.

A data diode (D) is a hardware device and does not use process scheduling.

GICSP discusses scheduling differences in the context of embedded and general-purpose systems.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Real-Time Operating Systems vs General-Purpose OS

GICSP Training on ICS Device Architectures

NEW QUESTION # 48

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

Answer: C

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 # 49

For application-aware firewalls filtering traffic between trust zones, which of the following policies should be applied to a packet that doesn't match an existing rule?

- A. Application deny list
- **B. Default deny**
- C. Default alert
- D. Application allow list

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In the context of Industrial Control Systems (ICS) and OT network security, the principle of least privilege and explicit access control is fundamental for protecting critical infrastructure assets. According to the GICSP framework, when using application-aware firewalls between different trust zones (e.g., corporate network to OT network), any traffic that does not explicitly match a defined rule should be blocked by default. This is referred to as the "default deny" policy.

* Default deny means that unless traffic is explicitly allowed by firewall rules, it should be denied. This ensures that no unknown or unauthorized packets traverse trust boundaries, reducing the attack surface significantly.

* The default alert option (A) is useful for monitoring but does not prevent unauthorized access, so it's insufficient as a security control.

* Application deny list (C) and application allow list (D) refer to sets of permitted or denied applications, but the firewall still needs an overarching policy to handle unmatched packets; that policy must be deny for safety.

This approach is emphasized in the ICS Security Architecture and Network Segmentation domain of GICSP, reinforcing that all unknown or unexpected network traffic should be blocked unless explicitly permitted by policy. This aligns with NIST SP 800-82 Rev 2 guidance on ICS security, which GICSP incorporates.

Reference:

Global Industrial Cyber Security Professional (GICSP) Official Study Guide, Domain: ICS Security Architecture & Design NIST SP 800-82 Rev 2: Guide to Industrial Control Systems (ICS) Security, Section 5.5 (Network Architecture) GICSP Training Materials, Firewall & Network Segmentation Best Practices Module

NEW QUESTION # 50

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