

Quiz 2026 Latest GICSP: Valid Global Industrial Cyber Security Professional (GICSP) Exam Question



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GIAC Global Industrial Cyber Security Professional (GICSP) Sample Questions (Q13-Q18):

NEW QUESTION # 13

Which of the following is located in user mode of a typical realtime OS, but in kernel mode of a typical standard OS?

- A. Process scheduling
- B. Virtual memory
- C. Interprocess communication

- D. Device drivers

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In many real-time operating systems (RTOS), interprocess communication (IPC) mechanisms (A) operate in user mode to minimize latency and overhead.

In typical standard operating systems, IPC is usually handled by the kernel (kernel mode) for security and control.

Virtual memory (B), device drivers (C), and process scheduling (D) are typically kernel mode in both OS types.

GICSP covers these architectural differences important in ICS device security and performance.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Real-Time Systems Literature

GICSP Training on Operating Systems in ICS

NEW QUESTION # 14

What differentiates a real-time operating system from a standard operating system?

- A. Process scheduling
- B. Memory usage
- C. CPU speed
- D. User accounts

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The defining characteristic of a real-time operating system (RTOS) is its process scheduling mechanism (C), which guarantees deterministic and predictable timing for critical tasks.

Memory usage (A), CPU speed (B), and user accounts (D) are secondary or unrelated to the core distinction.

RTOS uses priority-based or time-constrained scheduling to ensure timely task completion, crucial for ICS environments.

GICSP training emphasizes the importance of real-time scheduling in ICS control devices to meet operational safety and reliability.

Reference:

GICSP Official Study Guide, Domain: ICS Fundamentals & Architecture

Real-Time Systems Concepts and Scheduling

GICSP Training on Operating System Fundamentals

NEW QUESTION # 15

What is a use of Network Address Translation?

- A. To enable network routing functionality
- B. To maximize Firewall functionality
- C. To hide private network addresses
- D. To make access list configuration easier

Answer: C

Explanation:

Network Address Translation (NAT) is a technique used to hide private IP addresses behind a public IP address (C), providing security benefits by masking internal network structures from external networks. NAT also conserves public IP addresses and allows multiple devices to share a single IP when accessing external networks.

While NAT affects routing and firewall operations, its primary purpose is not to maximize firewall functionality (A), simplify access lists (B), or enable routing (D), although it may indirectly impact these functions.

GICSP training stresses NAT as part of network security design, especially at the boundary between enterprise and ICS networks.

Reference:

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

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

GICSP Training on Network Security Fundamentals

NEW QUESTION # 16

Which of the following is typically performed during the Recovery phase of incident response?

- A. Finding the root cause or vector used by the attacker to gain entry and maintain access.
- **B. Patching and configuring systems to meet established secure configuration standards.**
- C. Making a forensic image of the system(s) involved in the incident.
- D. Updating the organization's security policies to prevent future breaches.

Answer: B

Explanation:

The Recovery phase in incident response focuses on restoring systems to normal operations and strengthening defenses:

Patching and configuring systems to meet secure standards (B) is a typical recovery activity to prevent recurrence.

Updating security policies (A) is usually part of the Post-Incident Activities or Governance.

Root cause analysis (C) is typically part of the Investigation or Analysis phase.

Forensic imaging (D) is part of the Containment and Eradication phases for evidence preservation.

GICSP aligns recovery activities with system hardening and return to normal operations.

Reference:

GICSP Official Study Guide, Domain: ICS Security Operations & Incident Response NIST SP 800-61 Rev 2 (Incident Handling Guide) GICSP Training on Incident Response Lifecycle

NEW QUESTION # 17

Which control helps prevent threats to Integrity?

- A. Logging IDS alerts
- B. Centralized LDAP authentication
- **C. Implementing digital signatures**
- D. Firewall egress filtering

Answer: C

Explanation:

Integrity in cybersecurity ensures that data and systems are not altered or tampered with in an unauthorized manner. To protect integrity, controls must verify that data originates from a trusted source and has not been changed.

Digital signatures (D) provide cryptographic proof of data origin and integrity by enabling recipients to verify that the data has not been altered since it was signed.

Firewall egress filtering (A) limits outbound traffic but primarily protects confidentiality and availability, not directly integrity.

Logging IDS alerts (B) supports detection and auditing but is reactive rather than preventive.

Centralized LDAP authentication (C) manages user authentication and access control, mainly protecting confidentiality and accountability.

GICSP highlights digital signatures as a core control to maintain data integrity, especially for firmware, configuration files, and critical commands within ICS.

Reference:

GICSP Official Study Guide, Domain: ICS Security Principles

NIST SP 800-82 Rev 2, Section 6.5 (Information Integrity Controls)

GICSP Training on Cryptographic Controls and Data Integrity

NEW QUESTION # 18

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