

## A) Exam Snapshot

**Issuer:** Global Information Assurance Certification (GIAC)

**Exam code:** GSEC **Version:** [VERIFY: GIAC exam version label, if shown in your GIAC portal]

**Format:** 1 proctored exam, open-book (hardcopy only; no electronic files/devices)

**Questions / time:** 106 questions in 4 hours (target pace ~2.25 min per question)

**Passing score:** 73% minimum passing score (percent-based)

**Question types:** Multiple-choice + CyberLive hands-on tasks [VERIFY: CyberLive task count]

## B) Domain Weights

Domain weights: [VERIFY: obtain official blueprint weights; GIAC typically publishes objectives/areas covered rather than weighted domains].

## C) Core Workflow (how the exam thinks)

- Frame the problem: what asset is at risk, what threat is plausible, and what “good” looks like.
- Identify the environment: endpoint, network, cloud, identity, or application, and the most relevant controls.
- Pick the first defensible action: reduce exposure, improve detection, or contain impact with least disruption.
- Validate with evidence: logs, packet captures, host artifacts, configurations, and change history.
- Communicate clearly: describe impact, timeline, and recommended next steps for a non-specialist audience.
- Apply governance thinking: least privilege, segmentation, patching, backups, and monitoring as repeatable habits.
- Close the loop: confirm fix effectiveness and document what would prevent recurrence.

## D) High-Yield Concepts

- Defense-in-depth: layered controls that assume one layer will fail.
- Access control models: DAC vs MAC vs RBAC; authentication vs authorization; MFA factors.
- Networking essentials: TCP vs UDP; common services; segmentation and firewall rule intent.
- Cryptography basics: hashing vs encryption vs signing; symmetric vs asymmetric; key management.
- TLS basics: what certificates prove, what they do not, and how trust chains work.
- Endpoint hardening: secure baselines, patching, service reduction, and safe configuration drift checks.
- Logging and detection: what good logs contain (time source, actor, action, outcome) and where they live.
- Incident response: preparation, identification, containment, eradication, recovery, lessons learned.
- Malware and exploits: common delivery paths, privilege escalation signals, and mitigation patterns.
- Cloud fundamentals: shared responsibility, identity-first security, and monitoring of control-plane actions.
- Wireless basics: WPA2/WPA3, rogue access points, and why encryption alone is not enough.
- Web security basics: input handling, session risks, and why “least exposure” matters at the edge.

## E) Common Traps

- Assuming the goal is “perfect security” instead of the best risk-reducing first step.
- Picking a tool before clarifying the asset, boundary, and threat model.
- Confusing encryption with hashing or with digital signatures.
- Over-trusting indicators: treating one alert as proof without corroborating logs or host artifacts.
- Forgetting time: failing to align timestamps, time zones, or clock sources during investigations.
- Over-scoping: changing many things at once instead of isolating the smallest safe fix.
- Ignoring least privilege: granting broad access to “fix it quickly” without compensating controls.
- Skipping validation: not checking that a control change actually reduced exposure or improved detection.

## F) Cheat Sheet (things to recognize fast)

- Ports to recognize: 22 SSH, 53 DNS, 80 HTTP, 443 HTTPS, 25 SMTP, 3389 RDP, 445 SMB.
- Crypto quick picks: hash = integrity; encryption = confidentiality; signature = integrity + authenticity.
- Least privilege: start with minimal rights, then add only what the task proves is needed.
- Segmentation: separate trust zones; allow only required traffic; log what crosses zones.
- Evidence set: policy + configuration + log sample + change record + approval/sign-off (when applicable).
- Cloud shared responsibility: provider secures the service; customer secures identity, data, and configuration.

## G) Exam-Day Tactics

- Use an index: open-book works only with fast lookup (tabs + a one-page index you can scan).
- Triage: answer “sure things” first, then return to slower items with your references ready.
- Eliminate: remove two obviously wrong choices before debating the final two.
- CyberLive: read the task goal first, then verify with the provided artifacts before acting.
- Pace: aim for ~50 questions by the 2-hour mark; adjust if CyberLive items take longer.
- Avoid rabbit holes: if a lookup takes more than 90 seconds, mark and move on.
- Verify scope words: “best,” “first,” “most likely,” and “least” often decide the right option.

## H) 30-Minute Final Review Plan

- Minute 0–5: skim your index and tab map; confirm you can reach key topics in seconds.
- Minute 5–12: rapid pass on crypto distinctions and TLS certificate trust basics.
- Minute 12–18: rapid pass on network essentials and common ports/services.
- Minute 18–24: incident response lifecycle and what evidence proves each phase.
- Minute 24–28: cloud shared responsibility and identity-first control choices.
- Minute 28–30: calm check of logistics (ID, testing rules, workspace) and commit to pacing.

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