

NOCTI Cybersecurity Standard Certification Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Which term describes a highly skilled attacker using multiple vectors to achieve objectives?**
 - A. Advanced Persistent Threat (APT)**
 - B. Virus**
 - C. Worm**
 - D. Cryptography**

- 2. What term describes a form of cyber attack that steals classified, sensitive data or intellectual property to gain an advantage?**
 - A. Cyber espionage**
 - B. Data breach**
 - C. Phishing**
 - D. Ransomware**

- 3. Which technique is used to create an exact copy of the entire storage media for forensic analysis?**
 - A. Make a bit-level copy**
 - B. One-to-one copy**
 - C. Backing up log files**
 - D. Restore and repair any damage**

- 4. Which security measure uses two or more authentication methods?**
 - A. Multi-factor authentication**
 - B. Authentication**
 - C. Authorization**
 - D. Access Control Lists (ACL)**

- 5. Which action best enforces containment by isolating a malware-infected host to prevent spread?**
 - A. Remove the compromised computer**
 - B. Update all software on the network**
 - C. Change the router password**
 - D. Back up all data**

- 6. Which type of update typically corrects operating system problems and security vulnerabilities?**
- A. Service Pack**
 - B. Patch**
 - C. Firmware Updates**
 - D. Antivirus Definitions**
- 7. Which term describes the fraudulent practice of sending email claiming to be from reputable companies in order to induce people to reveal personal information?**
- A. Phishing**
 - B. Identity theft**
 - C. Ransomware**
 - D. Hacking**
- 8. Which action is an example of risk mitigation in an organization's cybersecurity strategy?**
- A. Implement protective measures to prevent a risk**
 - B. Accept the risk**
 - C. Defer the risk**
 - D. Ignore the risk**
- 9. If access decisions are made based on the user's specific identity, rather than their role, which model is in use?**
- A. DAC**
 - B. RBAC**
 - C. ABAC**
 - D. MAC**
- 10. What is the numerical label assigned to each device connected to a computer network or the internet called?**
- A. IP Address**
 - B. MAC Address**
 - C. Hostname**
 - D. Domain**

Answers

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1. A
2. A
3. A
4. A
5. A
6. A
7. A
8. A
9. A
10. A

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Explanations

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1. Which term describes a highly skilled attacker using multiple vectors to achieve objectives?

A. Advanced Persistent Threat (APT)

B. Virus

C. Worm

D. Cryptography

A highly skilled attacker using multiple vectors to achieve objectives is described by a profile known as an advanced persistent threat. The “advanced” part points to sophisticated tools and techniques, the “persistent” part highlights a long, stealthy presence inside a target network, and the “threat” aspect denotes a deliberate, organized adversary with defined goals. In practice, such campaigns blend several methods—phishing to steal credentials, zero-days, credential dumping, lateral movement, and gradual data exfiltration—so the attacker can maintain access while evading detection. This differs from a virus, which is malware that attaches to files to spread; a worm, which self-replicates through networks without user action; and cryptography, which is the discipline of protecting information.

2. What term describes a form of cyber attack that steals classified, sensitive data or intellectual property to gain an advantage?

A. Cyber espionage

B. Data breach

C. Phishing

D. Ransomware

Cyber espionage describes covert collection of information by state actors, organizations, or competitors to gain strategic or economic advantage. It focuses on stealing classified data, sensitive government or corporate information, and intellectual property so the attacker can use that knowledge to influence decisions, outperform competitors, or strengthen bargaining power. This emphasizes intent and purpose—the information is sought to gain an advantage—rather than simply exposing data or causing disruption. This differs from a data breach, which is any unauthorized access to data without specifying motive, and from phishing, which is a method used to trick people into revealing credentials. Ransomware centers on encrypting data and demanding payment, not primarily on stealing information for strategic gain.

3. Which technique is used to create an exact copy of the entire storage media for forensic analysis?

- A. Make a bit-level copy**
- B. One-to-one copy**
- C. Backing up log files**
- D. Restore and repair any damage**

Bit-level copying, also known as sector-by-sector imaging, is the process used to create an exact replica of the entire storage media for forensic analysis. It copies every bit in every sector, including unallocated space, slack space, and remnants of deleted files, ensuring nothing is left out. This exact copy lets investigators preserve the original evidence and perform analysis on the duplicate while maintaining the chain of custody, often verified by cryptographic hashes and protected with a write blocker on the source. The other options don't fit because a one-to-one copy is a vague term that might refer to a simple backup and could omit unallocated space or metadata; backing up log files isn't a full-image capture of the drive, and restoring and repairing damage is about recovery, not producing a forensically sound image.

4. Which security measure uses two or more authentication methods?

- A. Multi-factor authentication**
- B. Authentication**
- C. Authorization**
- D. Access Control Lists (ACL)**

Multi-factor authentication strengthens security by requiring two or more authentication methods from different factor categories. This means proving identity using at least two of these groups: something you know (like a password), something you have (such as a token or a phone with an authenticator app), and something you are (biometric data like a fingerprint). The idea is that even if one credential is compromised, the attacker still needs a second factor to gain access. For example, entering a password and then providing a one-time code from an authenticator app or scanning a fingerprint both count as two factors, fulfilling the requirement. This differs from authentication in general, which is simply the process of verifying who someone is and can be done with a single factor. Authorization is about what an authenticated user is allowed to do, and Access Control Lists specify permissions. So using multiple authentication methods is precisely multi-factor authentication.

5. Which action best enforces containment by isolating a malware-infected host to prevent spread?

- A. Remove the compromised computer**
- B. Update all software on the network**
- C. Change the router password**
- D. Back up all data**

Containment in incident response is about isolating an infected system so it cannot communicate with other devices, slow or stop the malware's spread, and give responders a chance to clean and restore systems. Removing the compromised computer from the network achieves this most directly. By disconnecting it, the malware loses its means to propagate to other hosts, access other systems, or receive further commands, which stops the outbreak at its source and prevents new infections while you examine and remediate the machine. Other options don't isolate the infected host. Updating all software on the network is important for reducing vulnerabilities, but it doesn't stop the current infected machine from spreading. Changing the router password affects access control but doesn't remove the infected host from the network. Backing up data is about recovery and continuity and may even capture unclean data if the malware is still active; it doesn't contain the spread.

6. Which type of update typically corrects operating system problems and security vulnerabilities?

- A. Service Pack**
- B. Patch**
- C. Firmware Updates**
- D. Antivirus Definitions**

Service packs are comprehensive updates that bundle many fixes, including security patches, into one OS release. They're designed to address a broad range of operating system problems and vulnerabilities by updating multiple components at once, which is why they're the typical way the OS is corrected. Individual patches target specific issues, firmware updates apply to hardware-level software like BIOS or device firmware, and antivirus definitions update malware signatures rather than fix OS flaws. So, a service pack best fits the need to correct operating system problems and security vulnerabilities.

7. Which term describes the fraudulent practice of sending email claiming to be from reputable companies in order to induce people to reveal personal information?

- A. Phishing**
- B. Identity theft**
- C. Ransomware**
- D. Hacking**

Phishing is a form of social engineering that uses email to impersonate a trusted company and persuade you to disclose personal information. These messages often look legitimate, spoof the sender, and push you to act quickly or provide passwords or financial details, typically via a link or reply. The aim is to harvest data attackers can misuse. Other terms describe different crimes: identity theft is using someone's information, ransomware is malware that locks files for payment, and hacking is the broader act of breaking into systems. Phishing specifically targets you through deceptive email as the entry point.

8. Which action is an example of risk mitigation in an organization's cybersecurity strategy?

- A. Implement protective measures to prevent a risk**
- B. Accept the risk**
- C. Defer the risk**
- D. Ignore the risk**

Risk mitigation focuses on reducing the chance and impact of a threat by putting protective controls in place. In cybersecurity, this means actions like patching systems, enforcing strong authentication, segmenting networks, encrypting data, and monitoring for signs of compromise. By implementing these safeguards, you lower the probability that a vulnerability will be exploited or lessen the consequences if it is, which is the essence of mitigating risk. The other approaches don't reduce risk: accepting the risk means you choose to live with the potential impact and take no action; deferring the risk postpones addressing it; ignoring the risk leaves the exposure unaddressed. Implementing protective measures directly reduces risk exposure, making it the best fit for risk mitigation.

9. If access decisions are made based on the user's specific identity, rather than their role, which model is in use?

- A. DAC**
- B. RBAC**
- C. ABAC**
- D. MAC**

When access decisions hinge on the exact user identity rather than a defined role, the model in use is Discretionary Access Control. In DAC, resource owners control who can access a resource by granting permissions to specific individuals or groups, focusing on who the user is. This differs from role-based access control, which assigns access based on predefined roles (like manager or staff). It also differs from attribute-based access control, which makes decisions using multiple attributes about the user and environment, and from mandatory access control, which relies on centralized security labels. So, granting or denying access by who the user is points to DAC.

10. What is the numerical label assigned to each device connected to a computer network or the internet called?

A. IP Address

B. MAC Address

C. Hostname

D. Domain

The label used to identify each device for routing data on a network is the IP address. This numeric identifier lets the Internet Protocol know where to send packets, whether the device is on a local network or somewhere across the internet. IP addresses come in two forms: IPv4, like 192.168.0.2, and IPv6, like 2001:0db8:85a3:0000:0000:8a2e:0370:7334. MAC addresses are hardware identifiers tied to a network interface card and are used mainly within a local network segment for data-link delivery, not for routing across networks. A hostname is a human-friendly label for a device that DNS translates into an IP address, while a domain refers to a DNS domain like example.com, part of naming rather than the device's numeric address.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://nocticybersecstandard.examzify.com>

We wish you the very best on your exam journey. You've got this!

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