

COMPTIA A+ CORE 2 (220-1002) CERTIFICATION PRACTICE EXAM (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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. What is the most likely cause of excessive pop-up windows and a particular website showing in searches?**
 - A. Spam
 - B. Virus
 - C. Social engineering
 - D. Spyware

- 2. After applying malware removal procedures, what is the next step to prevent future infections?**
 - A. Schedule scans and run updates.
 - B. Enable System Restore and create a restore point.
 - C. Document findings, actions, and outcomes.
 - D. Educate the corporate users.

- 3. Which tool should be used to fix a sluggish magnetic-based hard drive?**
 - A. Disk management
 - B. Optimize Drives
 - C. Storage Spaces
 - D. Mount point

- 4. What is the minimum hard drive requirement for installing Windows 10 64-bit?**
 - A. 2 GB of RAM
 - B. 2 GHz
 - C. 32 GB of hard drive space
 - D. 200 GB of hard drive

- 5. Which network type is typically used for connecting computers in a limited area, such as a home or office?**
 - A. Wide Area Network (WAN)
 - B. Metropolitan Area Network (MAN)
 - C. Local Area Network (LAN)
 - D. Personal Area Network (PAN)

- 6. How can a user securely access a home router via the internet?**
- A. Using default credentials
 - B. Through a VPN
 - C. Using public Wi-Fi
 - D. By disabling firewall
- 7. Your organization is concerned about a potential scenario where a mobile device with confidential data is stolen. What should be recommended first?**
- A. Remote backup application
 - B. Remote wipe program
 - C. Password locks
 - D. Locator application
- 8. In the context of RAID, what is a primary benefit?**
- A. Data redundancy for increased reliability
 - B. Faster data processing
 - C. Lower cost of storage
 - D. Simplified data access
- 9. What utility would you use to check for and fix file system errors on a hard drive?**
- A. Check Disk
 - B. Disk Cleanup
 - C. Task Manager
 - D. Disk Defragmenter
- 10. What is a benefit of using a Virtual Private Network (VPN)?**
- A. To improve speed of internet connection
 - B. To bypass firewalls
 - C. To secure the transmission of data over the internet
 - D. To increase bandwidth

Answers

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

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Explanations

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1. What is the most likely cause of excessive pop-up windows and a particular website showing in searches?

- A. Spam
- B. Virus
- C. Social engineering
- D. Spyware**

The presence of excessive pop-up windows and a specific website repeatedly appearing in searches is most commonly associated with spyware. Spyware is malicious software designed to gather information from a user's computer without their knowledge, which often results in unwanted pop-ups and redirects to certain websites as part of advertising schemes or data collection purposes. When spyware infects a device, it can manipulate the browser's behavior, leading to the display of unwanted ads and pop-ups. This behavior occurs because spyware typically tracks browsing habits, which can then be exploited to generate revenue for cybercriminals through ad impressions or clicks. Additionally, such software can alter browser settings or the default homepage, further causing users to encounter pop-ups and redirects to specific sites. In contrast, spam generally refers to unsolicited messages, often in the form of emails or unwanted notifications, which do not specifically cause pop-up windows in the browser environment. Viruses, while capable of causing significant harm to a system, usually manifest in other ways rather than merely producing excessive pop-ups. Social engineering refers to tactics that manipulate individuals into revealing personal information; it does not inherently involve the technical aspects of pop-up windows or search behaviors.

2. After applying malware removal procedures, what is the next step to prevent future infections?

- A. Schedule scans and run updates.
- B. Enable System Restore and create a restore point.
- C. Document findings, actions, and outcomes.
- D. Educate the corporate users.**

The next step to prevent future infections, after applying malware removal procedures, is to educate the corporate users. User education plays a crucial role in cybersecurity, as many infections occur due to user actions, such as clicking on suspicious links or downloading unverified attachments. By providing training on recognizing potential threats, safe browsing practices, and the importance of not opening unknown files or links, organizations can significantly reduce the likelihood of future infections. This proactive approach empowers users to be the first line of defense against malware. Thus, implementing regular training sessions or workshops can create a more security-conscious culture within the organization, which is essential for maintaining a secure environment. This education complements technical measures and makes it more challenging for malware to infiltrate the system again.

3. Which tool should be used to fix a sluggish magnetic-based hard drive?

- A. Disk management
- B. Optimize Drives**
- C. Storage Spaces
- D. Mount point

Using the Optimize Drives tool is a suitable approach to addressing issues with a sluggish magnetic-based hard drive. This tool is designed to defragment and optimize storage devices, particularly traditional hard disk drives (HDDs), which can experience performance degradation due to file fragmentation over time. Fragmentation occurs when files are scattered across the storage medium, leading to longer access times as the read/write heads of the drive must move to different locations to retrieve data. Optimize Drives helps to consolidate fragmented files, thereby improving the efficiency and speed of the hard drive. It can also execute scheduled maintenance tasks to ensure continued performance over time. This makes it a practical choice for enhancing the operation of magnetic-based hard drives that are underperforming. In contrast, other options such as Disk Management focus more on partition management rather than performance improvement, Storage Spaces is intended for managing and pooling storage devices for redundancy and performance but does not specifically target slow access speeds due to fragmentation, and Mount point is a feature related to Windows file management and does not apply directly to performance issues.

4. What is the minimum hard drive requirement for installing Windows 10 64-bit?

- A. 2 GB of RAM
- B. 2 GHz
- C. 32 GB of hard drive space**
- D. 200 GB of hard drive

To install Windows 10 64-bit, the minimum hard drive requirement is 32 GB of available storage space. This specification is essential as it ensures that there is sufficient room for the operating system files, system updates, and any additional applications or data that may be needed after installation. Windows 10 is designed to utilize modern hardware features, and having at least 32 GB helps to accommodate the needs of the system effectively. The other options pertain to different system requirements: RAM and processor speed, which while important for overall system performance, do not address the specific requirement for hard drive space needed to complete the installation. The choice of 200 GB is significantly above the minimum requirement, suggesting more storage than is strictly necessary for the install itself but not necessary to meet the basic installation criteria.

5. Which network type is typically used for connecting computers in a limited area, such as a home or office?

- A. Wide Area Network (WAN)
- B. Metropolitan Area Network (MAN)
- C. Local Area Network (LAN)**
- D. Personal Area Network (PAN)

A Local Area Network (LAN) is specifically designed to connect computers and devices within a limited geographical area, such as a home, school, or small office. This network type allows for high-speed data transfer and resource sharing among users, making it ideal for collaborative work environments or households where multiple devices need to communicate with each other. The primary characteristics of a LAN include its ability to connect devices such as computers, printers, and servers over short distances, typically using wired connections like Ethernet or wireless connections like Wi-Fi. The infrastructure is generally cost-effective and easy to set up, which is conducive to environments where limited space and resource sharing are critical. In contrast, other types of networks serve different purposes. A Wide Area Network (WAN) connects devices over long distances, often covering multiple cities or countries, while a Metropolitan Area Network (MAN) spans a larger area than a LAN but is still within the range of a city or town. A Personal Area Network (PAN), on the other hand, connects devices on a very small scale, typically within a few meters, and is often used for individual devices like smartphones and tablets. Thus, a LAN is the most suitable choice for connecting computers in a limited area.

6. How can a user securely access a home router via the internet?

- A. Using default credentials
- B. Through a VPN**
- C. Using public Wi-Fi
- D. By disabling firewall

Accessing a home router securely via the internet can be effectively accomplished through a Virtual Private Network (VPN). A VPN creates an encrypted connection between the user's device and the home network, which helps safeguard the data being transmitted from interception and potential attacks. This secure tunnel ensures that the user's connection is private, even when accessing the network from a remote location, such as outside the home or from a different city. Using default credentials is a significant security risk, as these are widely known and can be exploited by attackers. Public Wi-Fi can expose the user's connection to various security threats, making it risky to access sensitive devices like a router. Disabling the firewall weakens the network's defenses, leaving it more vulnerable to unauthorized access and attacks. Therefore, employing a VPN is the best practice for securely accessing a home router over the internet.

7. Your organization is concerned about a potential scenario where a mobile device with confidential data is stolen. What should be recommended first?

- A. Remote backup application
- B. Remote wipe program**
- C. Password locks
- D. Locator application

In the scenario where a mobile device containing confidential data is stolen, the first and most effective recommendation is to implement a remote wipe program. This approach allows the organization to erase all sensitive data remotely from the lost or stolen device, effectively securing the information from unauthorized access. The immediate focus here is on protecting the confidential data that could potentially be exposed due to the theft. While other options address different aspects of security and data protection, a remote wipe program provides a critical first response in a situation where time is of the essence. Once the device is declared missing, being able to instantly clear sensitive data helps mitigate the risk of a data breach and ensures that confidential information remains protected, regardless of the device's current location. For instance, a remote backup application is valuable for preserving data but does not secure the information on the device when it is no longer in the organization's possession. Password locks and locator applications can help with access control or recovery, but they do not provide the same immediate protective measure that a remote wipe offers against potential data exposure in the event of theft. Thus, the priority should be on maintaining data security through a wipe rather than other measures that may not provide immediate protection once the device is compromised.

8. In the context of RAID, what is a primary benefit?

- A. Data redundancy for increased reliability**
- B. Faster data processing
- C. Lower cost of storage
- D. Simplified data access

The primary benefit of RAID (Redundant Array of Independent Disks) is data redundancy for increased reliability. RAID configurations are designed to distribute data across multiple drives, which can significantly enhance the system's ability to recover from drive failures. By duplicating data or using parity techniques, RAID ensures that if one drive fails, the data remains accessible from the remaining drives. This redundancy helps protect against potential data loss, making it a critical feature for environments where data integrity and availability are essential. While faster data processing, lower cost of storage, and simplified data access can be advantages in certain RAID configurations, they are not the primary purpose of RAID technology. The main focus is on maintaining data integrity and providing a backup to prevent data loss, which is why data redundancy stands out as the core benefit of implementing RAID.

9. What utility would you use to check for and fix file system errors on a hard drive?

- A. Check Disk**
- B. Disk Cleanup
- C. Task Manager
- D. Disk Defragmenter

To check for and fix file system errors on a hard drive, the Check Disk utility is the appropriate choice. This tool, commonly known as CHKDSK, scans the file system and file system metadata of a volume for logical and physical errors. If any issues are found, it can repair them, ensuring the integrity of the file system. Disk Cleanup is designed for removing unnecessary files to free up disk space, such as temporary files and system files, but it does not address file system errors. Task Manager is a system utility that provides information about running processes and resource usage, allowing users to manage applications but not to repair any disk errors. Disk Defragmenter optimizes the file system by rearranging fragmented data to improve access speed, but it does not check for nor correct file system errors. Therefore, using Check Disk is essential for maintaining the health of the hard drive's file system, making it the suitable option for this task.

10. What is a benefit of using a Virtual Private Network (VPN)?

- A. To improve speed of internet connection
- B. To bypass firewalls
- C. To secure the transmission of data over the internet**
- D. To increase bandwidth

Using a Virtual Private Network (VPN) significantly enhances the security of data transmitted over the internet. A VPN creates an encrypted tunnel between the user's device and the VPN server, ensuring that any data sent and received is secure from interception by third parties. This encryption protects sensitive information such as passwords, credit card numbers, and other personal data, making it much more difficult for hackers or anyone else to access this information while it is in transit. In addition to securing data transmission, a VPN can provide anonymity and privacy by masking the user's IP address, thus making internet activities more difficult to trace back to the user. Although a VPN can have some impact on connection speed due to the overhead of encryption, its primary purpose is to protect data integrity and confidentiality, which are critical in today's digital landscape. Other options do not capture the main purpose of a VPN; while a VPN can sometimes bypass firewalls or provide some level of bypassing internet restrictions, these functionalities are secondary benefits compared to the primary aim of securing data transmission. Similarly, improving speed of internet connections or increasing bandwidth are not inherent functions of a VPN, which can sometimes lead to reduced speed instead because of the encryption process.

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://comptiaapluscore22201002.examzify.com>

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

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