

TSA Cybersecurity Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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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

- 1. What type of content does Hypertext Markup Language (HTML) primarily handle?**
 - A. Network communication**
 - B. File transfers between computers**
 - C. Displaying content in web browsers**
 - D. Providing Internet access**
- 2. What does access control define?**
 - A. A protocol for sharing information**
 - B. A method for hardware installation**
 - C. A set of protection schemes**
 - D. A database management system**
- 3. What is the main purpose of penetration testing?**
 - A. To enhance user training**
 - B. To assess employee performance**
 - C. To identify vulnerabilities in systems by simulating cyber attacks**
 - D. To improve system speed**
- 4. What is Microsoft's cloud storage service that is automatically installed on new Windows versions?**
 - A. Google Drive**
 - B. OneDrive**
 - C. Dropbox**
 - D. iCloud**
- 5. You can access some websites from a public library network but not others. What is the likely reason?**
 - A. Poor Internet connection**
 - B. A proxy server is filtering access**
 - C. Outdated browser version**
 - D. Firewall restrictions**

- 6. What does remote access security focus on?**
- A. Enhancing physical security at remote sites**
 - B. Securing network connections from remote locations**
 - C. Managing user passwords remotely**
 - D. Developing mobile applications**
- 7. What is a Universal Resource Locator (URL)?**
- A. A company that offers Internet access**
 - B. An address for a resource on the Internet**
 - C. A set of rules for file transfer**
 - D. A programming language for web development**
- 8. What is a key function of tracking systems in a cybersecurity context?**
- A. To ensure data is permanently deleted**
 - B. To identify the source of an attack**
 - C. To improve the user experience**
 - D. To generate marketing reports**
- 9. What is the main role of HTTP in web communication?**
- A. Secures data transfers.**
 - B. Transfers hypertext pages.**
 - C. Manages user sessions.**
 - D. Compresses web pages.**
- 10. What is an example of a cyber threat to transportation systems?**
- A. Data entry errors**
 - B. Ransomware attacks on critical infrastructure**
 - C. Physical theft of equipment**
 - D. Natural disasters affecting transportation**

Answers

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

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Explanations

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1. What type of content does Hypertext Markup Language (HTML) primarily handle?

- A. Network communication**
- B. File transfers between computers**
- C. Displaying content in web browsers**
- D. Providing Internet access**

Hypertext Markup Language (HTML) is fundamentally designed for structuring and presenting content on the web. It provides the foundational markup that enables web browsers to interpret and display text, images, videos, and other multimedia elements in a visually coherent format. This capability is vital for creating user-friendly web pages that people can navigate and interact with effectively. HTML allows developers to organize content using elements and tags, such as headings, paragraphs, links, and lists. When a web browser fetches an HTML document, it renders the specified content on the screen, making it accessible to users. This function of rendering and displaying content is what defines HTML's primary role on the internet, distinguishing it from other technologies that may focus on networking, file transfer, or internet access.

2. What does access control define?

- A. A protocol for sharing information**
- B. A method for hardware installation**
- C. A set of protection schemes**
- D. A database management system**

Access control primarily defines a set of protection schemes that are implemented to ensure that only authorized users can access certain resources, systems, or information. This concept encompasses policies, procedures, and technologies designed to manage who can view or use resources in a computing environment. Access control mechanisms can include user authentication, authorization measures, and the use of permissions and roles within a system. The significance of access control lies in its ability to safeguard sensitive information from unauthorized access and potential breaches. By establishing clear protocols about who has access to what data and under what circumstances, organizations can protect their assets and maintain compliance with regulatory requirements. This concept is fundamental to cybersecurity practices, ensuring that the confidentiality, integrity, and availability of data are preserved. Other options provided do not capture the essence of what access control is. For instance, protocols for sharing information, methods for hardware installation, or database management systems do not inherently concern themselves with the protective measures needed to restrict or allow access to resources based on user identity and roles. Thus, recognizing access control as a set of protection schemes highlights its crucial role in cybersecurity governance.

3. What is the main purpose of penetration testing?

- A. To enhance user training
- B. To assess employee performance
- C. To identify vulnerabilities in systems by simulating cyber attacks**
- D. To improve system speed

The primary purpose of penetration testing is to identify vulnerabilities in systems by simulating cyber attacks. This process allows organizations to evaluate the security of their networks, applications, and systems by attempting to exploit weaknesses, much like a malicious actor would. By conducting these tests, organizations can understand potential entry points for attackers and address security flaws before they can be exploited in a real attack. This proactive approach helps in strengthening security measures, reducing the risk of data breaches, and ensuring the overall integrity of the system. Penetration testing is an essential component of a robust cybersecurity strategy, as it provides actionable insights that can lead to better protective measures and ultimately enhances the security posture of the organization.

4. What is Microsoft's cloud storage service that is automatically installed on new Windows versions?

- A. Google Drive
- B. OneDrive**
- C. Dropbox
- D. iCloud

Microsoft's cloud storage service that is automatically installed on new versions of Windows is OneDrive. This service is designed to provide users with seamless integration for storing files in the cloud, enabling easy access and sharing across multiple devices. OneDrive is not only built into the operating system but also allows for features such as real-time file collaboration through Microsoft Office applications. This integration promotes convenience as users can save their files directly to OneDrive from their desktop, and they remain synchronized across all devices where the user is logged in. Additionally, OneDrive offers features such as version history, file recovery, and offline access, further enhancing its usability and attractiveness as a cloud storage solution tailored for Windows users.

5. You can access some websites from a public library network but not others. What is the likely reason?

- A. Poor Internet connection**
- B. A proxy server is filtering access**
- C. Outdated browser version**
- D. Firewall restrictions**

Accessing some websites from a public library network while being unable to reach others is most likely due to a proxy server filtering access. In many public networks, such as those in libraries, proxy servers are implemented to manage internet traffic and enforce specific access policies. These servers can restrict access to certain sites deemed inappropriate or non-educational based on established guidelines. Typically, libraries use this approach to ensure that their resources are used for educational and informational purposes, thereby fostering a safe and productive environment for all users. By filtering content, they can block harmful or non-compliant websites, while still allowing access to those that fit within their accepted use policies. This filtering mechanism is an important aspect of cybersecurity in public networks, helping to protect users from accessing potentially harmful content while guiding them toward useful resources. The other reasons do not specifically relate to controlled access policies in the same way that a proxy server does, which makes this answer the most relevant in the context of the question.

6. What does remote access security focus on?

- A. Enhancing physical security at remote sites**
- B. Securing network connections from remote locations**
- C. Managing user passwords remotely**
- D. Developing mobile applications**

Remote access security primarily focuses on securing network connections from remote locations. This area of cybersecurity is crucial as more users access networks from various off-site locations, such as their homes or public spaces. The goal is to ensure that these remote connections are protected from unauthorized access and other cybersecurity threats. To achieve this, remote access security employs various methods and technologies, including VPNs (Virtual Private Networks), secure sockets layer (SSL) encryption, and two-factor authentication. These measures help safeguard the data transmitted over the network and ensure that users can securely connect to organizational resources while maintaining confidentiality and integrity. Other options do not adequately capture the essence of remote access security. While enhancing physical security at remote sites is important for overall security, it does not specifically pertain to the security of network connections. Managing user passwords remotely, though relevant to cybersecurity, is a narrower focus and doesn't encompass the broader picture of securing the network as a whole. Developing mobile applications is also outside the primary concern of remote access security, which is focused on protecting the connectivity and traffic between users and the organizational infrastructure.

7. What is a Universal Resource Locator (URL)?

- A. A company that offers Internet access
- B. An address for a resource on the Internet**
- C. A set of rules for file transfer
- D. A programming language for web development

A Universal Resource Locator (URL) is fundamentally defined as an address for a resource on the Internet. This definition is rooted in the role of a URL in locating and accessing specific resources, which can include web pages, files, images, and other types of content available online. When you enter a URL in a web browser, you are directing that browser to a specific location on the Internet. The structure of a URL typically includes the protocol (like HTTP or HTTPS), the domain name, and possibly a path and query string that indicate the specific resource being requested. This functionality is crucial for navigating the web and accessing different types of information hosted on servers. Understanding what a URL is helps clarify its importance in web browsing and resource retrieval, as it serves as a standardized way to specify locations of resources, making web navigation intuitive for users. Other options, while they relate to different aspects of Internet technology, do not accurately define what a URL itself is.

8. What is a key function of tracking systems in a cybersecurity context?

- A. To ensure data is permanently deleted
- B. To identify the source of an attack**
- C. To improve the user experience
- D. To generate marketing reports

In the context of cybersecurity, tracking systems play a critical role in identifying the source of an attack. This capability allows security professionals to analyze patterns, behaviors, and artifacts associated with cyber threats. By using tracking systems, organizations can monitor network activity, log events, and correlate this information to determine how an attack was initiated, what vulnerabilities were exploited, and which systems were affected. Identifying the source of an attack is fundamental for implementing an effective response and remediation strategy. It helps in understanding the tactics used by attackers and can inform future security measures to prevent similar incidents. This proactive approach to cybersecurity not only aids in incident response but also supports ongoing risk management and threat detection efforts. Thus, the ability to trace attacks back to their origin is a pivotal function of tracking systems within the broader scope of cybersecurity practices.

9. What is the main role of HTTP in web communication?

- A. Secures data transfers.
- B. Transfers hypertext pages.**
- C. Manages user sessions.
- D. Compresses web pages.

The main role of HTTP, or HyperText Transfer Protocol, in web communication is to transfer hypertext pages. HTTP is the foundation of data communication on the web, enabling the transfer of text, images, videos, and other files that make up web content. It defines the structure of requests and responses between a web client (like a browser) and a server hosting the web content. When a user enters a URL into a browser, the browser sends an HTTP request to the server to retrieve the hypertext pages, which are then displayed to the user. This process allows users to navigate between different web pages seamlessly, accessing a variety of resources linked together through hyperlinks. Understanding that HTTP is fundamentally about transferring hypertext content is crucial in recognizing how web pages are delivered and rendered in browsers.

10. What is an example of a cyber threat to transportation systems?

- A. Data entry errors
- B. Ransomware attacks on critical infrastructure**
- C. Physical theft of equipment
- D. Natural disasters affecting transportation

Ransomware attacks on critical infrastructure exemplify a significant cyber threat to transportation systems. These attacks involve malicious software that encrypts data and renders systems inoperable until a ransom is paid. Transportation systems, which rely heavily on computer networks for operations, communication, and management, can be severely disrupted by such attacks. A successful ransomware attack can lead to delays, safety risks, financial losses, and a breach of sensitive data related to passengers and goods. In contrast, while data entry errors, physical theft of equipment, and natural disasters can negatively impact transportation systems, they do not directly involve cyber elements. Data entry errors typically arise from human mistakes and do not represent a cyber threat. Physical theft is related to tangible assets rather than cyber vulnerabilities. Natural disasters, although they can disrupt operations significantly, are environmental in nature and not classified as cyber threats. Thus, ransomware attacks specifically highlight the risks posed by malicious cyber activities in the context of transportation systems.

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://tsacybersecurity.examzify.com>

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