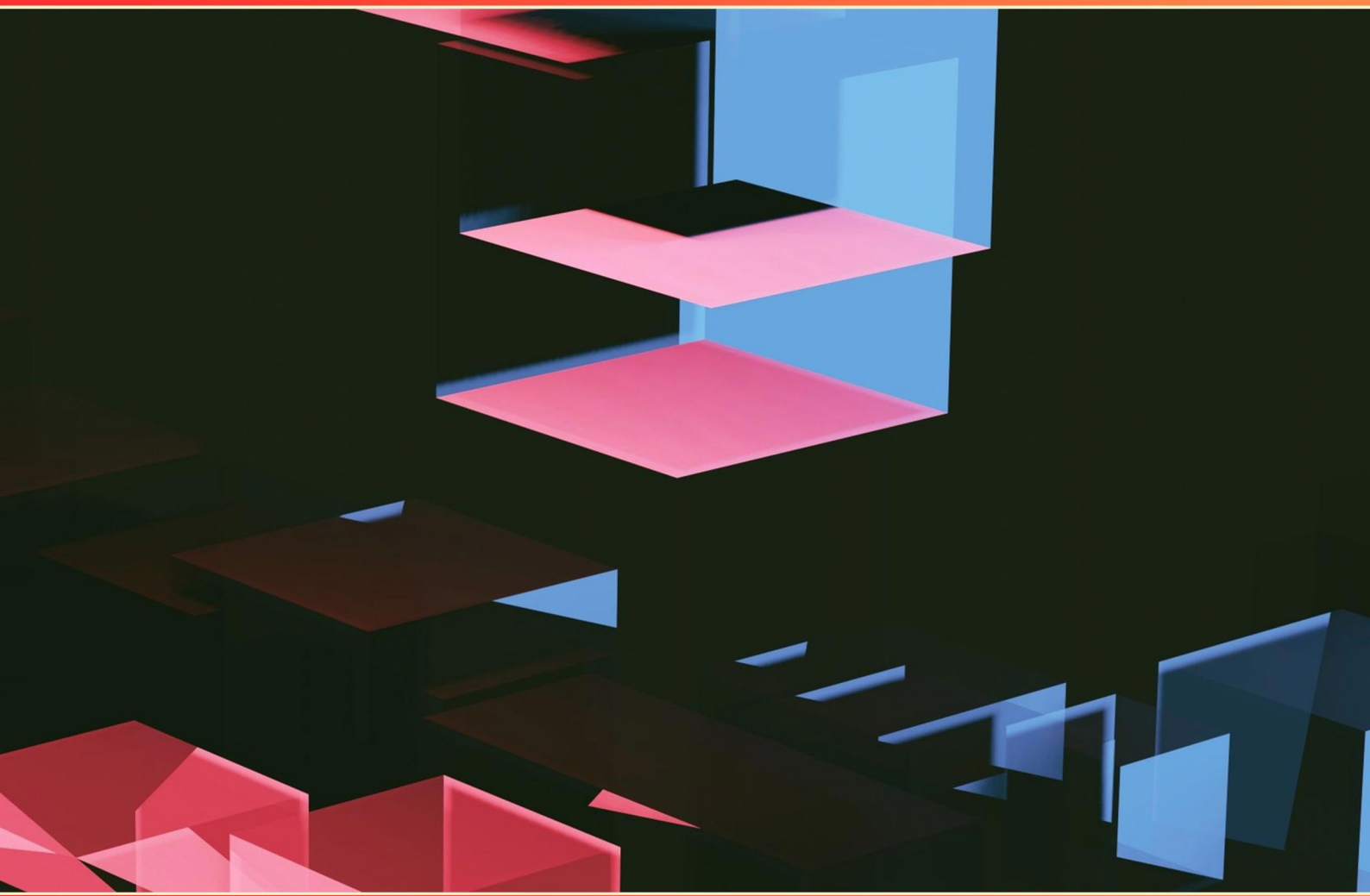
# ITGSS CERTIFIED TECHNICAL ASSOCIATE: EMERGING TECH PRACTICE TEST (SAMPLE)

## STUDY GUIDE



## SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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https://itgss-emergingtech.examzify.com

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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


SAMPLE

# 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.

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# 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!

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# Questions

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**1. What capabilities does the DICOM 3 format include?**

A. Tools for burning CD/DVD

B. Instruments for measurements

C. All of the above

D. Video playing

**2. How does edge computing support the Internet of Things?**

A. By centralizing data processing

B. By reducing latency and improving response times

C. By increasing the need for cloud storage

D. By limiting connectivity options

**3. What is a common indication for performing a biopsy?**

A. Confirm malignancy in a mass

B. Define the amount of fluid in a mass

C. Define the size of drainage tube needed

D. Confirm whether the mass is a simple cyst

**4. What is the main benefit of edge computing in emerging technologies?**

A. Increased data storage

B. Reduced latency by processing data closer to source

C. Enhanced device battery life

D. Higher overall data security

**5. What is the value of real-time analytics for businesses?**

A. It helps businesses predict future trends

B. It aids businesses in making timely decisions based on current data

C. It provides historical data for reporting

D. It simplifies customer segmentation

**6. Which organization focuses on the practice of ultrasound in medicine?**

A. American Institute of Ultrasound in Medicine

B. Society of Diagnostic Medical Sonographers

C. American College of Radiologist

D. American College of Sonologist

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**7. How can blockchain technology improve supply chain management?**

A. By increasing transaction speed

B. By enhancing transparency and traceability

C. By minimizing storage requirements

D. By enabling physical product visibility

**8. What does serverless architecture allow developers to do?**

A. Build applications without code

B. Manage server infrastructure on their own

C. Focus on application development without server management

D. Reduce application development costs

**9. Which emerging technology can be used to improve supply chain transparency?**

A. Artificial intelligence

B. Blockchain

C. Virtual reality

D. Robotic process automation

**10. What does a firewall primarily protect against?**

A. Natural disasters

B. Unauthorized access to a network

C. Hardware failure

D. User interface errors

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# Answers

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

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# Explanations

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## 1. What capabilities does the DICOM 3 format include?

A. Tools for burning CD/DVD

B. Instruments for measurements

C. All of the above

D. Video playing

*The DICOM 3 format, which stands for Digital Imaging and Communications in Medicine, is a comprehensive standard for handling, storing, and transmitting information in medical imaging. One of the key strengths of DICOM 3 is its versatility, which allows it to support a range of functionalities beneficial to healthcare professionals. The inclusion of tools for burning CD/DVD is essential for sharing imaging data. This capability ensures that large datasets, such as medical images, can be easily distributed to different facilities or for personal use, facilitating continuity of care. Instruments for measurements are integral to the DICOM 3 format as they allow healthcare providers to analyze images quantitatively. This could involve measuring distances, areas, or other parameters relevant to diagnosis and treatment planning. While DICOM is primarily focused on images, it also provides means to manage other forms of data, which could include video data from imaging devices. Thus, having features that support video content would enhance the user's ability to utilize different types of diagnostic modalities. Collectively, these capabilities affirm that the DICOM 3 format encompasses a wide array of tools and functions, making "all of the above" the most accurate choice among the options provided.*

## 2. How does edge computing support the Internet of Things?

A. By centralizing data processing

B. By reducing latency and improving response times

C. By increasing the need for cloud storage

D. By limiting connectivity options

*Edge computing plays a pivotal role in enhancing the Internet of Things (IoT) by minimizing latency and boosting response times. In IoT environments where devices generate vast amounts of data in real-time, processing this data closer to its source—at the edge of the network—enables instantaneous analysis and action. When data is processed at the edge, it reduces the distance that information must travel to reach processing facilities. This proximity leads to quicker decision-making, which is essential for applications requiring timely responses, such as autonomous vehicles, industrial automation, and real-time monitoring systems. Moreover, by alleviating congestion in data traffic and reducing the burden on centralized cloud servers, edge computing allows for a more efficient use of bandwidth resources. The other options do not adequately reflect the advantages that edge computing provides for IoT. Centralizing data processing typically leads to higher latency, while increasing cloud storage needs can detract from the efficiency that edge computing aims to offer. Additionally, limiting connectivity options is contrary to the principle of enhancing interactions within IoT ecosystems, which thrives on connectivity and data exchange.*

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## 3. What is a common indication for performing a biopsy?

A. Confirm malignancy in a mass

B. Define the amount of fluid in a mass

C. Define the size of drainage tube needed

D. Confirm whether the mass is a simple cyst

*A biopsy is primarily performed to obtain a tissue sample that can be analyzed microscopically to determine the presence of disease, particularly malignancy. In clinical practice, one of the most common reasons for conducting a biopsy is to confirm whether a mass is cancerous. By examining the cells within the mass, healthcare professionals can identify any abnormal features that suggest malignancy, aiding in the diagnosis and informing treatment options. In contrast, the other choices address different medical issues that do not typically require a biopsy for resolution. For example, while defining the amount of fluid in a mass may involve imaging studies or fluid aspiration, it does not necessitate biopsy. Similarly, determining the size of a drainage tube needed is a procedural decision that relates to managing an existing fluid collection rather than diagnosing a tissue abnormality. Lastly, confirming whether a mass is a simple cyst can often be performed through imaging techniques, such as ultrasound, which can differentiate cystic structures from solid lesions without the need for invasive tissue sampling. Thus, the primary utility of a biopsy in this context is its role in confirming malignancy, making it the most appropriate indication for the procedure.*

## 4. What is the main benefit of edge computing in emerging technologies?

A. Increased data storage

B. Reduced latency by processing data closer to source

C. Enhanced device battery life

D. Higher overall data security

*The main benefit of edge computing is the ability to reduce latency by processing data closer to its source. By performing data processing tasks at the edge of the network, rather than relying on a centralized data center that may be located far away, systems can achieve faster response times. This is particularly important for applications requiring real-time data processing and immediate decision-making, such as autonomous vehicles, industrial IoT devices, and augmented reality experiences. By minimizing the distance that data must travel and reducing dependence on a centralized location, edge computing enhances overall system performance and user experience. This aspect is integral to the efficiency of emerging technologies that rely heavily on timely data analysis and quick reaction times.*

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## 5. What is the value of real-time analytics for businesses?

A. It helps businesses predict future trends

B. It aids businesses in making timely decisions based on current data

C. It provides historical data for reporting

D. It simplifies customer segmentation

*Real-time analytics holds significant value for businesses as it enables them to make timely decisions based on current data. This is crucial in rapidly changing environments where the ability to respond swiftly to market fluctuations, customer behavior, and operational challenges can provide a competitive edge. By analyzing data as it is generated and updated, businesses can identify immediate trends and issues, allowing them to adjust their strategies, operations, or offerings accordingly. While predicting future trends is certainly an advantage of analytics, that falls more under the realm of predictive analytics, which utilizes historical data to forecast future events rather than focusing on real-time data. Historical data reporting is essential for understanding past performance but is not the primary function of real-time analytics, which emphasizes the present moment. Similarly, while customer segmentation can benefit from analytics, it is not exclusively tied to real-time data; businesses often use a variety of data points, including historical information, for more comprehensive segmentation strategies. Thus, the ability to act swiftly on current insights is what makes real-time analytics particularly valuable.*

## 6. Which organization focuses on the practice of ultrasound in medicine?

A. American Institute of Ultrasound in Medicine

B. Society of Diagnostic Medical Sonographers

C. American College of Radiologist

D. American College of Sonologist

*The American Institute of Ultrasound in Medicine is widely recognized for its dedicated focus on the practice of ultrasound in the medical field. This organization aims to advance the safe and effective use of ultrasound in medicine through education, research, and the establishment of practice standards. It provides resources for healthcare professionals involved in ultrasound practices, including guidelines, training opportunities, and advocacy for the advancement of the discipline. This clearly aligns with the question regarding an organization specifically focused on ultrasound. While other organizations mentioned do have relevance in the broader context of medical imaging and sonography, none of them solely emphasize the practice and advancement of ultrasound to the extent that the American Institute of Ultrasound in Medicine does. For instance, the Society of Diagnostic Medical Sonographers supports professionals in diagnostic sonography but does not have the same breadth of focus on ultrasound practices as the institute. Similarly, the American College of Radiologists and the American College of Sonologists primarily engage in other imaging practices and specialized fields rather than concentrating specifically on ultrasound.*

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## 7. How can blockchain technology improve supply chain management?

A. By increasing transaction speed

B. By enhancing transparency and traceability

C. By minimizing storage requirements

D. By enabling physical product visibility

*Blockchain technology significantly enhances transparency and traceability in supply chain management. This improvement stems from the decentralized and immutable nature of blockchain, where each transaction or movement of goods is recorded on a distributed ledger that all stakeholders can access in real-time. This level of transparency allows parties to verify and audit transactions without relying on a single centralized authority, which reduces the risk of fraud and errors. Additionally, the traceability offered by blockchain enables companies to track products from origin to destination. This capability is essential for various reasons, including ensuring compliance with regulations, enhancing the safety of goods (such as food and pharmaceuticals), and facilitating recalls when necessary. When every participant in the supply chain can access the same reliable data, it fosters trust and accountability among all parties involved, ultimately leading to more efficient operations. The other options, while potentially beneficial in a broader sense, do not encapsulate the main advantages of blockchain in the context of supply chain management as effectively as enhancing transparency and traceability does.*

## 8. What does serverless architecture allow developers to do?

A. Build applications without code

B. Manage server infrastructure on their own

C. Focus on application development without server management

D. Reduce application development costs

*Serverless architecture is designed to enable developers to concentrate on writing and deploying code without the need to manage the underlying server infrastructure. This model abstracts away the complexity associated with server management, allowing developers to focus purely on the development of applications. In a serverless environment, the cloud provider automatically handles the allocation of resources, scaling, and server maintenance, which frees developers from worrying about the physical or virtual servers that execute their applications. The emphasis on application development without server management is crucial, as it enhances productivity and accelerates the deployment process. Developers can more swiftly iterate on features and updates, leading to faster overall project timelines and quicker innovation cycles. Without this focus on application development, developers would need to divert attention to server management tasks, which can slow down the development process and add unnecessary complexity to projects. This is why the ability to focus solely on application development is the core benefit of serverless architecture.*

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## 9. Which emerging technology can be used to improve supply chain transparency?

A. Artificial intelligence

B. Blockchain

C. Virtual reality

D. Robotic process automation

*Blockchain technology plays a significant role in enhancing supply chain transparency. It operates on a decentralized ledger system that allows all stakeholders within a supply chain to access and verify transactions in real time. Each transaction or movement of goods is recorded on the blockchain, creating an immutable record that is transparent and traceable. This transparency enables businesses to track the provenance of products, ensuring compliance with regulations, and verifying the authenticity of goods. For instance, in industries like pharmaceuticals or food, companies can demonstrate the journey of a product from its origin to the consumer, which can help in addressing issues such as fraud, contamination, and ethical sourcing. While the other options—artificial intelligence, virtual reality, and robotic process automation—offer benefits in various aspects of supply chain management, they do not inherently provide the same level of transparency and traceability that blockchain does. Artificial intelligence may enhance decision-making processes and optimize logistics, virtual reality can simulate supply chain scenarios for training purposes, and robotic process automation can streamline repetitive tasks but lacks the foundational transparency feature of blockchain.*

## 10. What does a firewall primarily protect against?

A. Natural disasters

B. Unauthorized access to a network

C. Hardware failure

D. User interface errors

*A firewall primarily serves as a security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules. Its main function is to create a barrier between a trusted internal network and untrusted external networks, such as the internet. By doing so, it protects against unauthorized access to the network, which can include attempts by malicious users or programs to exploit vulnerabilities and gain entry to sensitive data or resources. While other options might seem relevant in various contexts, they do not align with the primary function of a firewall. Natural disasters, for example, are beyond the scope of what a firewall can address, as they pertain to physical threats rather than digital security. Similarly, hardware failure relates to physical components malfunctioning, which has no connection to a firewall's role in managing network access. User interface errors also do not correlate with firewall functionalities, as these issues are more related to software usability rather than network protection. Thus, the focal point of a firewall's purpose—guarding against unauthorized access—clearly positions it as an essential element in network security.*

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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://itgss-emergingtech.examzify.com

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

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