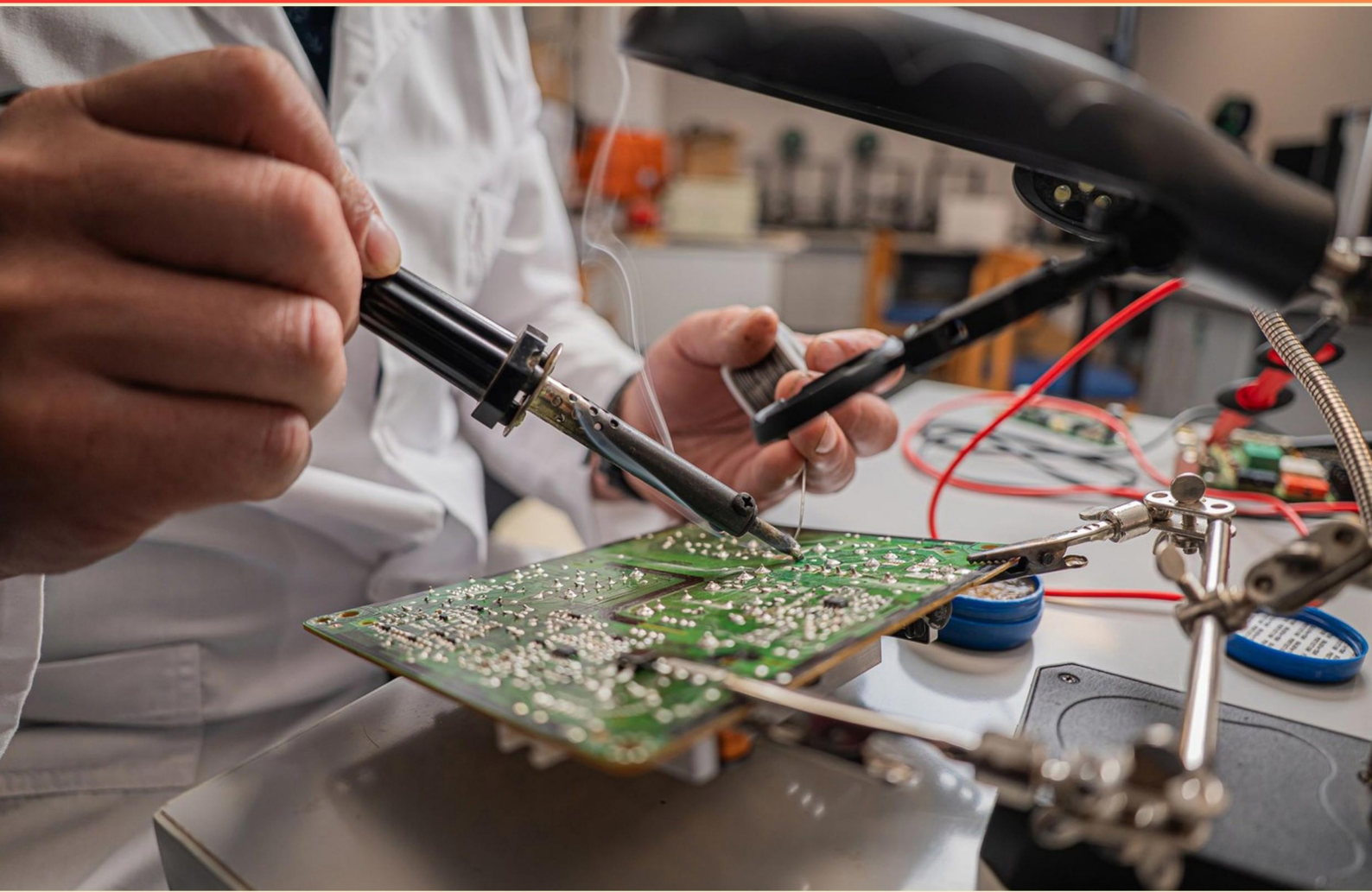


WISE TECHNICIAN CERTIFICATION PRACTICE EXAM (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

<https://wisetechnician.examzify.com>



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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 does PCBA stand for?**
 - A. Printed Circuit Board Arrangement
 - B. Printed Circuit Board Assembly
 - C. Professional Circuit Board Application
 - D. Potential Circuit Board Assembly
- 2. What type of systems are typically included in the WISE Technician Certification curriculum?**
 - A. Hydraulic systems
 - B. Solar photovoltaic systems
 - C. Automotive electrical systems
 - D. Microbial energy systems
- 3. What is the primary use of polyimide tapes?**
 - A. To enhance electrical conductivity
 - B. To prevent electrical shortages as insulating tapes
 - C. For aesthetic purposes in electronic devices
 - D. As a permanent adhesive solution
- 4. Grounding tapes are primarily made of what material?**
 - A. Non-conductive adhesive
 - B. Conductive pressure sensitive adhesive
 - C. Rubber
 - D. Plastic
- 5. Which wireless technology is optimized for audio streaming?**
 - A. Bluetooth Low Energy
 - B. Wi-Fi Direct
 - C. Bluetooth Basic Rate (BR/EDR)
 - D. NFC
- 6. Which energy source is NOT typically included in the WISE curriculum?**
 - A. Fossil fuels
 - B. Geothermal energy
 - C. Solar energy
 - D. Wind energy

- 7. What is typically not included in the capabilities of NFC?**
- A. Transferring large files quickly
 - B. Bootstrapping more advanced wireless connections
 - C. Establishing simple setups for device pairing
 - D. Communication over distances greater than 4 cm
- 8. What is recommended for the physical security of smartphones during repair?**
- A. Leave them on the counter unlocked
 - B. Secure devices with one lock during operating hours
 - C. Secure devices with two locks outside of operating hours
 - D. Both secure with one lock during operating hours and two outside
- 9. What type of screwdriver resembles the Phillips head but is based on the JIS standard?**
- A. Torx-head screwdriver
 - B. JIS screwdriver
 - C. Pentalobe screwdriver
 - D. Flat-head screwdriver
- 10. When should grounding tapes typically be replaced?**
- A. When damaged
 - B. When removed
 - C. When worn out
 - D. When outdated

Answers

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

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Explanations

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1. What does PCBA stand for?

- A. Printed Circuit Board Arrangement
- B. Printed Circuit Board Assembly**
- C. Professional Circuit Board Application
- D. Potential Circuit Board Assembly

The term PCBA stands for Printed Circuit Board Assembly. This refers to the process of assembling electronic components onto a printed circuit board (PCB) to create a functional electronic circuit. The assembly can include multiple stages such as placing components, soldering them to the board, and testing the final assembly to ensure it works correctly. Understanding this term is crucial because PCBA plays a vital role in the electronics industry, as it is a fundamental step in the manufacturing of devices ranging from simple gadgets to complex electronic equipment. Knowledge of PCBA ensures that technicians can effectively communicate and understand the assembly process as well as the quality assurance aspects that are inherent in producing reliable electronic products.

2. What type of systems are typically included in the WISE Technician Certification curriculum?

- A. Hydraulic systems
- B. Solar photovoltaic systems**
- C. Automotive electrical systems
- D. Microbial energy systems

The WISE Technician Certification curriculum primarily focuses on solar photovoltaic systems. This area of study is crucial as it encompasses the design, installation, and maintenance of solar energy systems, which are increasingly important given the global shift towards renewable energy sources. Understanding the technical aspects, such as how photovoltaic cells convert sunlight into electricity, system configurations, and implementation practices, is essential for technicians in this field. While hydraulic systems, automotive electrical systems, and microbial energy systems are relevant in various technical arenas, they are not the focal point of the WISE curriculum. The emphasis here is on solar technology, reflecting growing industry demand for specialists equipped to handle the installation and upkeep of solar energy systems. This specialization prepares technicians to meet the challenges of a transitioning energy landscape, making it a vital component of the certification program.

3. What is the primary use of polyimide tapes?

- A. To enhance electrical conductivity
- B. To prevent electrical shortages as insulating tapes**
- C. For aesthetic purposes in electronic devices
- D. As a permanent adhesive solution

Polyimide tapes are primarily used as insulating tapes to prevent electrical shorts. They have excellent thermal and electrical insulating properties, which makes them highly effective in various applications, especially in electronics and electrical engineering. These tapes can withstand high temperatures and are resistant to various chemicals, making them ideal for applications involving soldering and circuit boards. In the realm of electrical applications, preventing shorts is critical because it ensures safe and reliable functioning of electronic devices. The choice of a tape that can withstand high temperatures while providing effective insulation is crucial for the longevity and performance of electronic components.

4. Grounding tapes are primarily made of what material?

- A. Non-conductive adhesive
- B. Conductive pressure sensitive adhesive**
- C. Rubber
- D. Plastic

Grounding tapes are primarily made of conductive pressure sensitive adhesive due to their essential role in creating effective electrical connections. The conductive nature of the adhesive allows for the establishment of a low-resistance path to ground, which is critical in many applications, especially in electrical installations and grounding systems. This ensures that any stray currents or voltages can be safely dissipated, reducing the risk of electrical shock or equipment damage. The pressure-sensitive aspect means that the tape can adhere to various surfaces without the need for additional adhesives, making application quick and efficient. Conductive grounding tapes are often used in environments where reliable grounding is necessary, such as in electronic equipment, telecommunications, and electrical shielding. In contrast, non-conductive adhesives, rubber, and plastic do not provide the necessary conductivity for effective grounding, which is why these materials are not suitable for grounding tapes.

5. Which wireless technology is optimized for audio streaming?

- A. Bluetooth Low Energy
- B. Wi-Fi Direct
- C. Bluetooth Basic Rate (BR/EDR)**
- D. NFC

The choice of Bluetooth Basic Rate (BR/EDR) as the optimized technology for audio streaming is grounded in its design and characteristics. Bluetooth BR/EDR is specifically tailored for continuous data transmission and high-quality audio streaming applications. It operates at speeds capable of supporting the bandwidth requirements necessary for clear audio transmission, making it well-suited for devices like headphones, speakers, and car audio systems. BR/EDR supports profiles such as the Advanced Audio Distribution Profile (A2DP), which is essential for streaming stereo audio wirelessly. This capability enables high-fidelity sound transmission, enhancing the listening experience for users. In contrast, while other listed technologies can serve various functions, they do not offer the same level of optimization for audio streaming. For example, Bluetooth Low Energy is more focused on low-power applications, making it unsuitable for high-quality audio. Wi-Fi Direct, although capable of handling large volumes of data, is generally used for faster data transfers rather than specifically for audio streaming purposes. NFC is primarily designed for quick, short-range communication rather than continuous data transfer like audio streaming. Thus, Bluetooth Basic Rate (BR/EDR) stands out as the most effective technology for transmitting audio wirelessly due to its high bandwidth support and specialized

6. Which energy source is NOT typically included in the WISE curriculum?

- A. Fossil fuels
- B. Geothermal energy
- C. Solar energy
- D. Wind energy

The WISE curriculum primarily focuses on renewable energy sources and sustainable practices, aiming to educate individuals about environmentally friendly alternatives to traditional energy forms. While fossil fuels are a significant part of the energy landscape and often discussed in the context of energy policies and environmental impacts, they are not typically emphasized as a valuable energy source within the curriculum. Conversely, geothermal, solar, and wind energy are all renewable sources that the WISE curriculum is designed to cover extensively. These energy types support the educational goals of promoting sustainable development and reducing reliance on fossil fuels, aligning with modern trends in energy production and usage. By excluding fossil fuels as a primary focus, the WISE curriculum underscores a commitment to advancing knowledge about sustainable and cleaner energy alternatives.

7. What is typically not included in the capabilities of NFC?

- A. Transferring large files quickly
- B. Bootstrapping more advanced wireless connections
- C. Establishing simple setups for device pairing
- D. Communication over distances greater than 4 cm

Transferring large files quickly is typically not within the capabilities of NFC (Near Field Communication). NFC operates at a short range, generally within a few centimeters, which inherently limits the speed and volume of data that can be efficiently transferred. The technology is designed for quick, small data exchanges rather than handling large files. For example, NFC is commonly used for tasks such as contactless payments or sharing small data packets like URLs or contact information. The other aspects listed, such as bootstrapping more advanced wireless connections, establishing simple setups for device pairing, and communication over distances, are integral functionalities of NFC. These features showcase NFC's effectiveness in facilitating connections and data exchanges between devices in a seamless way, albeit limited in speed and range. Understanding the intended uses and limitations of NFC helps clarify why transferring large files is not a primary function of this technology.

8. What is recommended for the physical security of smartphones during repair?

- A. Leave them on the counter unlocked
- B. Secure devices with one lock during operating hours
- C. Secure devices with two locks outside of operating hours
- D. Both secure with one lock during operating hours and two outside**

For the physical security of smartphones during repair, the most recommended approach is to secure devices with one lock during operating hours and two locks outside of operating hours. This dual-layer security strategy helps ensure that devices are protected against unauthorized access or theft at all times. During operating hours, having one lock provides a level of security that prevents casual access by unauthorized personnel while still enabling technicians to access the phones they are working on. This strikes a balance between convenience and security in a busy repair environment. Outside of operating hours, increasing security to two locks adds an extra layer of protection. This is particularly important as technicians may not be on-site to monitor the area, and the risk of theft can increase once the repair shop is closed. Employing two locks creates a significant barrier against potential theft, deterring any would-be intruders and safeguarding the valuable devices. Implementing this strategy demonstrates a commitment to protecting clients' property and maintaining the integrity of the repair operation, which can build trust and enhance service quality. Such practices are essential in a professional setting that manages high-value electronics like smartphones.

9. What type of screwdriver resembles the Phillips head but is based on the JIS standard?

- A. Torx-head screwdriver
- B. JIS screwdriver**
- C. Pentalobe screwdriver
- D. Flat-head screwdriver

The JIS screwdriver, which stands for Japanese Industrial Standard, shares similarities with the Phillips head screwdriver, particularly in its cross-shaped design. However, the JIS screwdriver is specifically engineered to provide a better fit for JIS screws, which are commonly used in Japanese-made products. The design differences between the two types of screwdrivers allow the JIS screwdriver to engage more effectively with JIS screws, minimizing the risk of cam-out, which is the slipping of the screwdriver during use. This makes it an ideal choice for technicians and professionals working with Japanese machinery or electronics, where precision and a snug fit are critical to avoid damaging the screw heads. Thus, recognizing the distinct advantages of the JIS screwdriver is essential for ensuring effective and safe handling of specific fasteners.

10. When should grounding tapes typically be replaced?

- A. When damaged
- B. When removed**
- C. When worn out
- D. When outdated

Grounding tapes should be replaced when removed because this indicates a discontinuation of service or a structural change in the installation that may affect the grounding system's integrity. It's essential to ensure that grounding systems remain intact and reliable at all times, as this is critical for safety and performance in electrical installations. If grounding tape is removed, it is an indication that the connection or the system has been altered, and simply reusing old tape may not provide the necessary safety or effectiveness required. Therefore, new tape should be installed to restore continuity and ensure the grounding system functions correctly. While grounding tape can be damaged or worn out, which would also necessitate replacement, routine maintenance and adhering to standards require that any grounding components removed should be replaced to maintain system integrity. Keeping in mind that grounding systems are vital for protecting both equipment and personnel, it is important to treat any removal scenario as a trigger for immediate replacement with a new grounding solution.

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://wisetechnician.examzify.com>

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

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