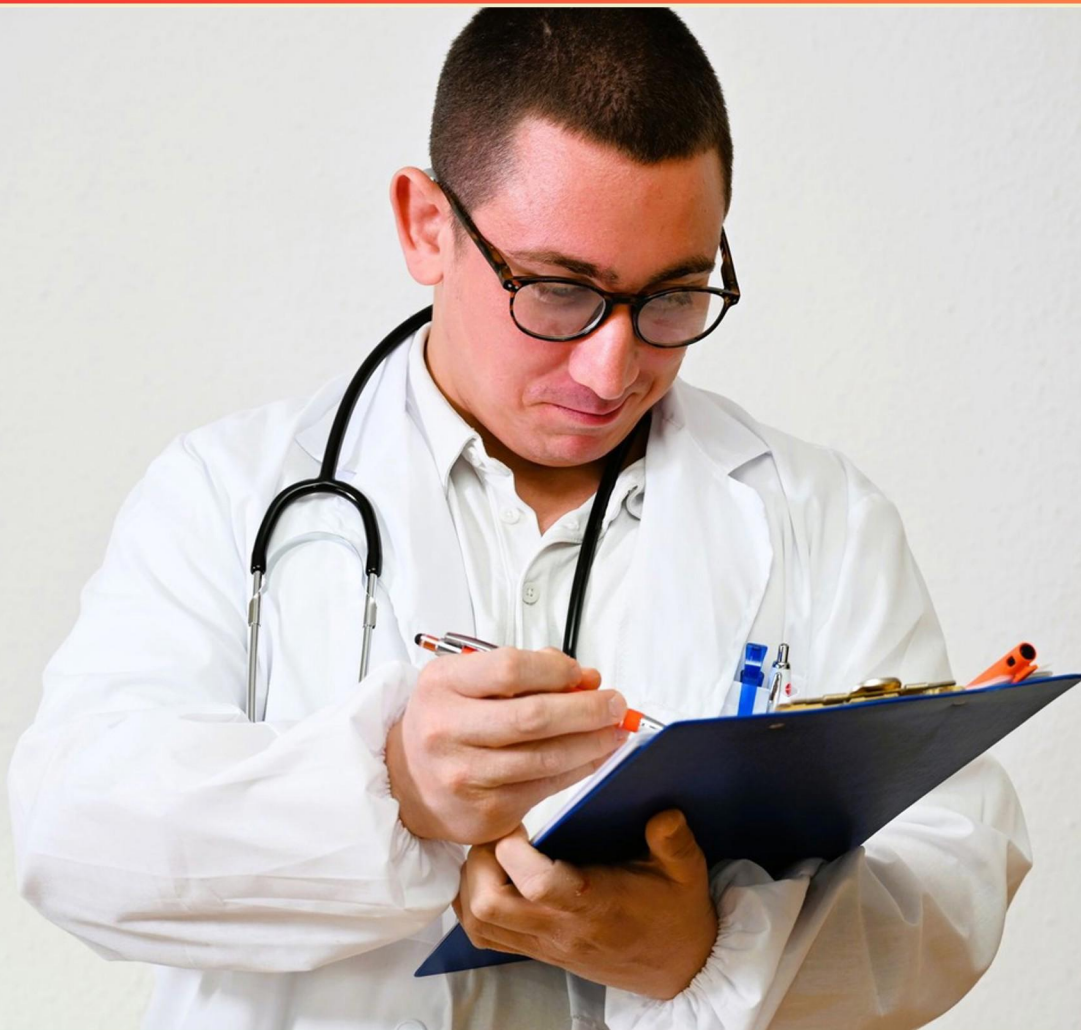


CERTIFIED MAINTENANCE AND RELIABILITY TECHNICIAN (CMRT) PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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

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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 one of these methods is best avoided during bearing removal to maintain shaft integrity?**
 - A. Hydraulic method
 - B. Hammer method
 - C. Puller method
 - D. Improper puller alignment
- 2. What is an important characteristic of reliability centered maintenance (RCM)?**
 - A. It emphasizes total absence of equipment maintenance
 - B. It is based on scheduled replacements
 - C. It applies only to machines operating at low capacity
 - D. It considers the functions of equipment and potential failures
- 3. The best method to determine target specifications for alignment is by?**
 - A. Measuring the distance between machines
 - B. Monitoring positional change from stopped to loaded conditions
 - C. Using laser alignment tools
 - D. Checking for bolt hole clearance
- 4. Determining the main cause of a trouble involves consideration of:**
 - A. The cost of repairs
 - B. Possible causes of effect
 - C. The time required for repairs
 - D. The equipment age
- 5. What is a primary goal of troubleshooting?**
 - A. To replace faulty equipment
 - B. To conduct a thorough investigation
 - C. To get the equipment working again
 - D. To minimize downtime

- 6. Moving a pair of feet more than the required amount to achieve alignment tolerance is known as?**
- A. A misalignment move
 - B. An optimal move
 - C. A corrective move
 - D. A calibration move
- 7. When troubleshooting erratic performance, you would expect to find which of the following?**
- A. Broken components
 - B. The wrong application of instrumentation
 - C. Excessive wear on parts
 - D. Lubrication issues
- 8. What is the purpose of FRACAS?**
- A. To reduce downtime
 - B. To collect and analyze failure information
 - C. To conduct routine maintenance checks
 - D. To ensure regulatory compliance
- 9. Which maintenance approach focuses on preventing equipment failure and is typically scheduled?**
- A. Predictive maintenance
 - B. Preventive maintenance
 - C. Reactive maintenance
 - D. Corrective maintenance
- 10. What is the best approach when performing final alignment of horizontally mounted machines?**
- A. Make horizontal move first
 - B. Shim first then make horizontal move
 - C. Adjust foot bolts before shimming
 - D. Perform a vertical alignment before horizontal

Answers

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

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Explanations

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1. Which one of these methods is best avoided during bearing removal to maintain shaft integrity?

- A. Hydraulic method
- B. Hammer method
- C. Puller method
- D. Improper puller alignment**

The best answer is the method involving improper puller alignment. When removing bearings, maintaining the integrity of the shaft is crucial to avoid damage that can lead to costly repairs or replacements. If a puller is not properly aligned, it can apply uneven pressure to the shaft. This misalignment can result in localized stress, which may cause the shaft to bend or deform, making it unsuitable for future use. In contrast, the hydraulic method, hammer method, and puller method, when executed correctly, are acceptable ways to remove bearings without damaging the shaft. While any of these methods can potentially lead to issues if applied incorrectly, the particular choice of improper puller alignment directly corresponds to a significant risk of deformity in the shaft itself. Proper alignment ensures that the force is distributed evenly, minimizing the risk of damage and preserving the shaft's structural integrity.

2. What is an important characteristic of reliability centered maintenance (RCM)?

- A. It emphasizes total absence of equipment maintenance
- B. It is based on scheduled replacements
- C. It applies only to machines operating at low capacity
- D. It considers the functions of equipment and potential failures**

The important characteristic of reliability-centered maintenance (RCM) lies in its approach to understanding the functions of equipment and the potential failures that may occur. RCM is designed to ensure that systems function reliably while considering the consequences of equipment failures. This method involves analyzing the functions of various components, determining what could cause those functions to fail, and assessing the impact on the overall system. By focusing on function and failure, RCM helps organizations prioritize maintenance efforts based on criticality and the likelihood of failure, thereby allocating resources more effectively to enhance operational reliability. This strategic focus distinguishes RCM from other maintenance strategies that may rely solely on time-based schedules or do not consider the specific operational context of the equipment. Other options present characteristics or assumptions that do not align with the essence of RCM, such as suggesting a lack of maintenance or limitations to low-capacity machinery, which do not reflect the comprehensive and proactive nature of RCM practices.

3. The best method to determine target specifications for alignment is by?

- A. Measuring the distance between machines
- B. Monitoring positional change from stopped to loaded conditions**
- C. Using laser alignment tools
- D. Checking for bolt hole clearance

Determining target specifications for alignment is crucial for ensuring that machinery operates efficiently and without undue wear. Monitoring positional change from stopped to loaded conditions is the best method to achieve this because it allows technicians to assess how the machinery behaves under actual operating conditions. When machines are examined in a static (stopped) state, they may appear correctly aligned, but once they begin to operate and take on loads, mechanical factors like weight distribution and thermal expansion can cause shifts in position. By observing any changes in alignment from this transitional state to when the machinery is fully loaded, technicians can identify how misalignments may occur during normal operation. This proactive measure helps in establishing accurate target specifications that will maintain performance and reduce the risk of failure. In contrast, measuring the distance between machines, using laser alignment tools, and checking for bolt hole clearance, while useful in their own right, do not provide the comprehensive insights gained from observing changes under operating conditions. Each of those methods might miss important deviations that occur only when the equipment is under load. Hence, monitoring positional changes during operation is the most effective way to set precise alignment targets.

4. Determining the main cause of a trouble involves consideration of:

- A. The cost of repairs
- B. Possible causes of effect**
- C. The time required for repairs
- D. The equipment age

Determining the main cause of a trouble, particularly in maintenance and reliability contexts, revolves around understanding the possible causes of an effect. This analytical approach involves delving into the relationship between identified issues and their underlying causes, ensuring that efforts to resolve the problem address its root rather than just its symptoms. By focusing on possible causes, technicians can utilize tools such as root cause analysis, which helps in systematically investigating the issue and identifying factors that contribute to the trouble. This method is crucial in preventing recurrence and optimizing maintenance strategies. The other options, while relevant in different contexts, do not directly address the fundamental goal of determining the root cause of a problem. Cost of repairs and time required for repairs may influence decision-making processes but do not help in uncovering the underlying issues. Similarly, the equipment age can provide some insight into reliability and potential wear-and-tear but does not directly relate to identifying the cause of the trouble itself.

5. What is a primary goal of troubleshooting?

- A. To replace faulty equipment
- B. To conduct a thorough investigation
- C. To get the equipment working again**
- D. To minimize downtime

The primary goal of troubleshooting is to get the equipment working again. In any maintenance and reliability context, troubleshooting is a systematic process used to identify the root causes of equipment failures or malfunctions. The ultimate objective of this process is to restore functionality to the equipment, ensuring that it operates as intended. While conducting a thorough investigation is important as part of troubleshooting, and minimizing downtime is often a critical consideration in maintenance practices, the overarching purpose remains centered on operational restoration. Replacing faulty equipment may be a potential outcome of troubleshooting, but it is not the goal itself; rather, troubleshooting seeks to determine whether repairs can be made to restore functionality without the need for replacement. Hence, the emphasis is on diagnosing the issue and taking corrective actions that enable the equipment to resume its regular operation efficiently.

6. Moving a pair of feet more than the required amount to achieve alignment tolerance is known as?

- A. A misalignment move
- B. An optimal move**
- C. A corrective move
- D. A calibration move

The concept of moving a pair of feet more than necessary to achieve alignment tolerance refers to an "optimal move." In the context of maintenance and reliability, an optimal move signifies that the system or component has been adjusted to not only meet alignment specifications but to exceed them slightly, ensuring enhanced performance and reducing future maintenance risks. In practical applications, alignment tolerances are set to establish a standard for operational efficiency; however, going beyond these tolerances can provide additional leeway that may help in accommodating slight shifts that could occur in the future due to operational vibrations or thermal effects. This proactive approach is vital in systems where precise alignment is critical to prevent premature wear or failure. The other options do not accurately describe this scenario. A misalignment move would imply that the movement is incorrect or not adhering to the desired alignment specifications. A corrective move typically refers to adjustments made to remedy an existing issue rather than exceeding alignment tolerances in a preventive manner. Lastly, a calibration move usually pertains to adjusting measurement instruments or devices to ensure accuracy, rather than adjusting physical alignment to exceed tolerances.

7. When troubleshooting erratic performance, you would expect to find which of the following?

- A. Broken components
- B. The wrong application of instrumentation**
- C. Excessive wear on parts
- D. Lubrication issues

When troubleshooting erratic performance, the expectation that the wrong application of instrumentation is the correct answer offers insight into the importance of proper measurement and control systems in maintaining equipment reliability. Erratic performance often stems from inaccurate data readings or feedback that do not represent the true condition of the system being monitored. Using instrumentation incorrectly—whether due to improper calibration, unsuitable sensors for specific applications, or incorrect installation—can lead to inconsistent or misleading performance data. Such discrepancies can make it challenging to diagnose actual problems within the equipment. Understanding and utilizing the correct instrumentation is crucial for effectively monitoring systems and ensuring performance remains steady and predictable. Other options like broken components, excessive wear on parts, and lubrication issues can certainly cause performance problems; however, these issues typically lead to more consistent symptoms and failure modes rather than erratic behavior. Thus, while they are important to examine, they do not specifically tie to the concept of erratic performance as closely as the application and use of instrumentation do.

8. What is the purpose of FRACAS?

- A. To reduce downtime
- B. To collect and analyze failure information**
- C. To conduct routine maintenance checks
- D. To ensure regulatory compliance

FRACAS, which stands for Failure Reporting, Analysis, and Corrective Action System, is specifically designed to collect and analyze failure information. The primary goal of FRACAS is to create a systematic process for tracking failures, understanding their causes, and implementing corrective actions to prevent reoccurrence. This involves documenting failures, analyzing the data to identify trends or root causes, and then taking action to mitigate similar issues in the future. By focusing on the collection and analysis of failure data, organizations can enhance reliability and performance, ultimately leading to improved maintenance practices and reduced operational costs. The use of FRACAS enables a structured approach to problem-solving, allowing teams to make data-driven decisions about maintenance strategies and reliability improvements. Additionally, it assists in promoting a culture of continuous improvement within an organization.

9. Which maintenance approach focuses on preventing equipment failure and is typically scheduled?

- A. Predictive maintenance
- B. Preventive maintenance**
- C. Reactive maintenance
- D. Corrective maintenance

Preventive maintenance is a proactive maintenance strategy designed to prevent equipment failure before it occurs. This approach involves regular, scheduled inspections, servicing, and replacement of parts to ensure equipment operates efficiently and effectively. By adhering to a planned maintenance schedule, organizations can mitigate the risk of unexpected breakdowns, extend the life of their assets, and maintain operational continuity. This approach stands out for its structured methodology, allowing maintenance teams to conduct tasks like lubrication, adjustments, and parts replacement at predetermined intervals based on manufacturers' recommendations or historical data on equipment performance. The ultimate goal is to maintain machinery in peak operating condition, thereby enhancing reliability and reducing unplanned downtime. While predictive maintenance also seeks to prevent failures, it relies on condition-monitoring data to determine when maintenance should occur, making it less scheduled than preventive maintenance. Reactive maintenance, on the other hand, is carried out after equipment has failed, leading to possible interruptions and increased costs. Corrective maintenance involves addressing specific issues, typically after a failure has been identified, rather than maintaining a schedule aimed at preventing such failures in the first place.

10. What is the best approach when performing final alignment of horizontally mounted machines?

- A. Make horizontal move first
- B. Shim first then make horizontal move**
- C. Adjust foot bolts before shimming
- D. Perform a vertical alignment before horizontal

When performing the final alignment of horizontally mounted machines, shimming first and then making a horizontal move is the best approach. This method allows for a more precise alignment by ensuring that the machine is level and properly supported before making any adjustments. Shimming involves placing thin, flat pieces of material under the machine's feet to raise it to the desired height, helping to fill gaps that may exist due to uneven surfaces that can hinder proper alignment. By starting with shimming, you effectively create a stable baseline. After achieving this level position, making horizontal adjustments becomes much more straightforward and effective because the machine now has a solid foundation. This minimizes the risk of misalignment due to movement during the adjustment process. Other methods, such as making horizontal moves first, can lead to complications. If the machine is not adequately shimmed, making horizontal adjustments could result in a misalignment or unstable positioning, requiring repeated corrections. Adjusting foot bolts before shimming could also lead to instability and complications in the alignment process, as changes in bolt tension can shift the alignment. Lastly, performing vertical alignment before addressing horizontal alignment can complicate matters, as both axes might need simultaneous adjustments to ensure the machine operates optimally without any undue stress on the components involved. Overall, beginning

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://cmrt.examzify.com>

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

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