

FRC Rebuilt Rules Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

Copyright © 2026 by Examzify - A Kaluba Technologies Inc. product.

ALL RIGHTS RESERVED.

No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.

Notice: Examzify makes every reasonable effort to obtain accurate, complete, and timely information about this product from reliable sources.

SAMPLE

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.

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

SAMPLE

- 1. How many drive team members are allowed to go to the question box at one time?**
 - A. 1**
 - B. 2**
 - C. 3**
 - D. 4**

- 2. What is the height of the second tower rung?**
 - A. 40 inches**
 - B. 42 inches**
 - C. 45 inches**
 - D. 48 inches**

- 3. What aspects of the robot should teams focus on improving during a rebuild?**
 - A. Aesthetics and visuals**
 - B. Performance, reliability, and effectiveness**
 - C. Speed and agility**
 - D. Cost efficiency and affordability**

- 4. Which of the following can be considered a violation of the Rebuild Rules?**
 - A. Using off-the-shelf components**
 - B. Failing to document changes made to the robot**
 - C. Implementing software updates**
 - D. Adjusting robot configurations**

- 5. Which of the following best describes an allowable interaction with the tower for scoring points?**
 - A. Only supporting structures can be touched**
 - B. Fuel elements must be in contact**
 - C. Robots can lift or push against the tower**
 - D. Full weight of the robot can rest on the tower**

- 6. How can team roles impact the success of a rebuild?**
- A. They reduce the need for structured communication**
 - B. They can create confusion if not clearly defined**
 - C. They make decision-making slower**
 - D. They have no real impact on the outcome**
- 7. What is the number of ranking points awarded for a win in a match?**
- A. 1**
 - B. 2**
 - C. 3**
 - D. 5**
- 8. How many robots can climb during auto per alliance?**
- A. 1**
 - B. 2**
 - C. 3**
 - D. 4**
- 9. Which alliance's hub is active during the first alliance shift?**
- A. The alliance that scored the most points during auto**
 - B. The alliance that scored fewer points during auto**
 - C. Both alliances equally**
 - D. No specific alliance**
- 10. What is the weight limit for a robot excluding bumpers?**
- A. 100 lb**
 - B. 110 lb**
 - C. 115 lb**
 - D. 120 lb**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. How many drive team members are allowed to go to the question box at one time?

- A. 1
- B. 2**
- C. 3
- D. 4

In FRC competitions, the drive team is typically composed of a limited number of members who are actively engaged in operating the robot during a match. The rule regarding how many drive team members can approach the question box at one time is designed to ensure efficient communication and minimize disruption. Allowing two drive team members to go to the question box at one time strikes a balance between providing enough representation from the team to explain any issues or ask questions, while also keeping the process organized. This helps maintain the flow of the event and ensures that the question box is not overcrowded, which could lead to confusion or delays. This rule cultivates a structured environment where teams can address concerns without overwhelming the event staff or interrupting the competition's progression. Such clarity in the rules enhances the experience for all teams involved, ensuring that communication is straightforward and effective.

2. What is the height of the second tower rung?

- A. 40 inches
- B. 42 inches
- C. 45 inches**
- D. 48 inches

The height of the second tower rung is indeed set at 45 inches. This specific measurement is defined in the guidelines governing tower rungs within the FRC (FIRST Robotics Competition) framework. The precise heights for various components of the towers are established to ensure consistency across competitions, allowing teams to design their robots with a clear understanding of the dimensions they must accommodate. Choosing 45 inches for the second rung provides a standard height that all teams need to strategize around, particularly when considering the reach and ability of their robots to interact with the rungs during matches. This height is tailored to challenge teams while still being accessible for robots that are designed properly, emphasizing engineering innovation and capabilities that teams showcase during the competition.

3. What aspects of the robot should teams focus on improving during a rebuild?

- A. Aesthetics and visuals
- B. Performance, reliability, and effectiveness**
- C. Speed and agility
- D. Cost efficiency and affordability

The primary focus for teams during a rebuild should be on enhancing performance, reliability, and effectiveness. This is crucial because the ultimate goal of a robot in competition is to perform tasks efficiently and consistently under the constraints of the game. By prioritizing performance, teams can ensure their robot delivers the best outcomes in matches, which involves optimizing its mechanisms and systems for the specific challenges it will face. Reliability is also vital; a robot that fails to operate effectively due to mechanical issues or design flaws can lead to missed opportunities in competition. Therefore, teams should assess their previous robot designs and identify weaknesses that could be addressed in the rebuild process. Effectiveness ties into how well the robot can meet game objectives. This could involve refining strategies or enhancing the robot's capabilities to ensure it can perform all required tasks reliably. While aesthetics, speed, and cost are important considerations, they should not take precedence over foundational aspects such as performance and reliability. Focusing solely on speed without ensuring reliability could lead to performance failures, just as overly prioritizing cost might compromise quality and effectiveness. Hence, the right approach during a rebuild is to enhance those core attributes that directly affect how well the robot competes.

4. Which of the following can be considered a violation of the Rebuild Rules?

- A. Using off-the-shelf components
- B. Failing to document changes made to the robot**
- C. Implementing software updates
- D. Adjusting robot configurations

Failing to document changes made to the robot is indeed a violation of the Rebuild Rules because proper documentation is essential for ensuring transparency and compliance within the competition framework. The Rebuild Rules are established to maintain fair play and integrity, allowing teams to make improvements or repairs while keeping a clear record of modifications. When changes are not documented, it creates potential issues regarding the understanding of the robot's design, performance modifications, and adherence to the specific rules outlined by the competition authorities. Documentation serves several purposes: it provides a reference for what has been modified or rebuilt, helps in verifying compliance with competition rules, and aids in the assessment of robot performance over time. Without this documentation, teams can inadvertently run afoul of the rules, jeopardizing their participation in the competition or resulting in penalties. In contrast, using off-the-shelf components, implementing software updates, and adjusting robot configurations typically fall within permissible practices as long as they align with the established guidelines. Therefore, the lack of documentation represents a direct violation of the expectations set forth in the Rebuild Rules.

5. Which of the following best describes an allowable interaction with the tower for scoring points?

- A. Only supporting structures can be touched**
- B. Fuel elements must be in contact**
- C. Robots can lift or push against the tower**
- D. Full weight of the robot can rest on the tower**

The choice that describes an allowable interaction with the tower for scoring points emphasizes that robots can engage with the tower by either lifting or pushing against it. This interaction is essential in certain game strategies where a robot may need to leverage its physical connection to the tower to score points effectively. The rules typically allow such actions to ensure that teams can utilize the tower as a strategic component during the game. Supporting structures specifically referencing where fuel elements must be placed doesn't adequately represent the general interaction available; it is more about what items are involved rather than the nature of the interaction itself. Furthermore, a distinction exists regarding the pressure exerted by the robot; while pushing and lifting are allowed, the full weight resting on the tower could be viewed as a potential violation of design or safety restrictions, making it a less favorable option.

6. How can team roles impact the success of a rebuild?

- A. They reduce the need for structured communication**
- B. They can create confusion if not clearly defined**
- C. They make decision-making slower**
- D. They have no real impact on the outcome**

Having clearly defined team roles is crucial for the success of a rebuild because it helps ensure accountability and clarity in responsibilities. When individuals on the team understand their specific roles, it reduces the likelihood of overlap and ambiguity, which can lead to inefficiencies and mistakes. If roles are not well-defined, confusion can arise, resulting in tasks being missed or duplicated, miscommunication among team members, and ultimately hindering the progress of the rebuild. By having structured roles, teams can improve their efficiency and effectiveness, facilitating a smoother and more coordinated effort toward achieving their objectives. The clarity provided by defined roles allows for better collaboration and enhances the overall performance of the team.

7. What is the number of ranking points awarded for a win in a match?

- A. 1
- B. 2
- C. 3**
- D. 5

In the context of the FRC (FIRST Robotics Competition), a win in a match is awarded three ranking points. This scoring system is designed to encourage teams to perform well, as well as to promote competitiveness and collaboration in matches. When a team wins, they not only contribute to their own ranking but also add to the overall excitement of the competition. The three ranking points serve as a significant incentive for teams to strategize effectively and aim for victories during the qualification rounds.

Understanding the importance of ranking points is crucial; they have a direct impact on the team's placement in the tournament bracket, which can ultimately influence their chances of advancement in the competition. The other options reflect points that do not align with the established FRC scoring rules, as a win is clearly defined to merit three ranking points.

8. How many robots can climb during auto per alliance?

- A. 1
- B. 2**
- C. 3
- D. 4

In the context of the FRC Rebuild Rules, each alliance is allowed to have a maximum of two robots complete the climbing task during the autonomous period of the match. This rule is designed to ensure that there is an opportunity for strategic planning and execution during the autonomous phase, which can significantly impact the overall score and performance of the alliance. Allowing two robots to climb during the autonomous period encourages coordination and teamwork among alliance members, as they must work together to navigate and utilize their climbing mechanisms effectively within the limited time available. The maximum of two robots climbing also sets tactical boundaries for how alliances can deploy their resources and capabilities during this crucial phase of the match. This understanding also highlights the importance of pre-match strategy and communication, as alliances will need to decide which robots are best suited for climbing in order to maximize their scoring potential effectively.

9. Which alliance's hub is active during the first alliance shift?

- A. The alliance that scored the most points during auto**
- B. The alliance that scored fewer points during auto**
- C. Both alliances equally**
- D. No specific alliance**

The correct choice indicates that the alliance that scored fewer points during the autonomous period becomes the active hub during the first alliance shift. This mechanism is designed to create a more balanced competition by allowing the alliance at a disadvantage to have the first opportunity to engage with their partner or strategize for subsequent rounds. By having the alliance with fewer points take the initiative during the first alliance shift, this rule encourages competitiveness and ensures that both alliances have a fair chance to contribute actively to their overall performance throughout the match. This approach helps maintain engagement and excitement during the game, fostering a dynamic environment where strategy and gameplay evolve. The other options do not align with this rule. An alliance scoring the most points would not be favored for activity, nor would it be beneficial to have both alliances active at once or have no specific alliance designated, as that would undermine the strategic element intended by this aspect of the game format.

10. What is the weight limit for a robot excluding bumpers?

- A. 100 lb**
- B. 110 lb**
- C. 115 lb**
- D. 120 lb**

The weight limit for a robot in the FRC (FIRST Robotics Competition) is set at 120 pounds, which does not include the weight of the bumpers. This rule is designed to ensure fairness and safety in competition while also challenging teams to innovate within those constraints. The specific requirement encourages teams to optimize their designs to build a robot that performs effectively within the weight limit. Understanding that the bumpers are not included in this weight allows teams to allocate materials more efficiently while keeping the robot's core elements lightweight yet robust. Therefore, a robot's total weight must not exceed 120 pounds, ensuring that all competing robots adhere to the same standards and levels of performance.

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://frcrebuiltrules.examzify.com>

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

SAMPLE