FRC REBUILT RULES PRACTICE TEST (SAMPLE)

STUDY GUIDE

SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR THE FULL VERSION STUDY GUIDE

https://frcrebuiltrules.examzify.com

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

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.

SAMPLE

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!

SAMPLE

Questions

SAMPLE

1. Which aspect is crucial during the robot's compliance checks?

A. Evaluating the robot's speed

B. Ensuring adherence to the weight limit

C. Assessing the robot's aesthetic appeal

D. Testing the robot in competition conditions

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

A. 100 lb

B. 110 lb

C. 115 lb

D. 120 lb

3. What aspect of robot design should teams carefully consider during a rebuild?

A. The latest trends in robot technology

B. Maintaining functionality while adhering to build rules

C. The aesthetics and branding of the robot

D. The popularity of similar robots in competitions

4. What should be monitored closely when testing a rebuilt robot?

A. Only aesthetic damages

B. Performance metrics and compliance with guidelines

C. Team member opinions

D. Consumer feedback

5. What is the first consequence for being uncivil during a match?

A. Verbal warning

B. Minor foul

C. Major foul

D. Red card

6. Can teams use parts from old robots for their rebuilds?

A. No, they must use all new components

B. Only if the old parts are approved by FIRST

C. Yes, as long as those parts meet current rules

D. Yes, but they must be modified

SAMPLE

7. 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

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

A. 1

B. 2

C. 3

D. 4

9. What must teams maintain in addition to the robot itself during a rebuild?

A. A verbal agreement among team members

B. An accurate and detailed build log documenting all changes made

C. A list of parts that were not used

D. A video of the entire rebuild process

10. What is the initial penalty for breaking a scoring element?

A. Yellow card

B. Major foul

C. Verbal warning

D. Disqualification

SAMPLE

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. Which aspect is crucial during the robot's compliance checks?

A. Evaluating the robot's speed

B. Ensuring adherence to the weight limit

C. Assessing the robot's aesthetic appeal

D. Testing the robot in competition conditions

During compliance checks, ensuring adherence to the weight limit is a fundamental aspect because it directly relates to the safety and functionality of the robot within the competition framework. Each team must design their robot to meet specific regulations laid out in the competition rules, which often include weight limits to ensure fairness and safety among all participating teams. Exceeding the weight limit could not only disqualify the robot from the competition but also affect its performance and balance. Other aspects such as speed and aesthetic appeal do not have the same level of impact on compliance checks. While performance in competition conditions is important for overall strategy and functionality, it does not directly address whether the robot meets the mandatory regulations set forth for participation. Therefore, adherence to weight limits is crucial as it serves as a baseline requirement for compliance with competition rules.

2. 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.

3. What aspect of robot design should teams carefully consider during a rebuild?

A. The latest trends in robot technology

B. Maintaining functionality while adhering to build rules

C. The aesthetics and branding of the robot

D. The popularity of similar robots in competitions

During the rebuild of a robot, maintaining functionality while adhering to build rules is of paramount importance. Teams must ensure that their design complies with the specific regulations and restrictions set forth by the competition, as failure to do so could lead to disqualification or other penalties. This aspect encompasses considerations like dimensions, weight limits, safety protocols, and part usage, ensuring that the robot is not only competitive but also compliant with the governing rules. While aspects such as aesthetics, technology trends, and the popularity of certain designs can influence a team's choices, they should not be prioritized over the fundamental requirement of functionality and rule adherence. Ensuring that the robot performs its intended tasks effectively within the constraints of the rules allows teams to maximize their competitive edge while adhering to the principles of fair play and integrity in robotics competitions.

EXAMPLE

4. What should be monitored closely when testing a rebuilt robot?

A. Only aesthetic damages

B. Performance metrics and compliance with guidelines

C. Team member opinions

D. Consumer feedback

Monitoring performance metrics and compliance with guidelines is crucial when testing a rebuilt robot. This ensures that the robot operates efficiently and meets the technical standards set forth in the rules. Performance metrics can include speed, accuracy, and responsiveness, which indicate how well the robot can perform its intended functions. Compliance with guidelines assures that the robot adheres to safety regulations and any specific requirements for competition. This thorough monitoring helps in identifying any issues that may arise during operation, allowing for timely adjustments and ensuring that the robot is competition-ready. Focusing solely on aesthetic damages or team member opinions does not provide a comprehensive understanding of the robot's operational capabilities. While consumer feedback may have value in certain contexts, it is less relevant in the immediate testing phase where technical performance and compliance are paramount.

5. What is the first consequence for being uncivil during a match?

A. Verbal warning

B. Minor foul

C. Major foul

D. Red card

Being uncivil during a match typically results in a verbal warning, which serves as the first step in addressing inappropriate behavior. This warning is intended to emphasize the importance of sportsmanship and ensure that all participants adhere to the expected standards of conduct. It acts as a reminder to maintain civility and respect during the competition. By issuing a verbal warning, officials give individuals a chance to correct their behavior before escalating consequences occur. In this context, moving to a minor foul, major foul, or a red card would reflect a more serious level of misconduct. These subsequent actions indicate that the uncivil behavior has continued or escalated beyond an initial warning. Therefore, a verbal warning is both a necessary and appropriate first consequence, allowing for a more constructive approach to maintaining the integrity of the match.

6. Can teams use parts from old robots for their rebuilds?

A. No, they must use all new components

B. Only if the old parts are approved by FIRST

C. Yes, as long as those parts meet current rules

D. Yes, but they must be modified

Teams can use parts from old robots for their rebuilds, provided that those parts adhere to the current rules established by FIRST. This means that any components retained from previous builds must still comply with the specifications and limitations set forth in the latest game manual. It is essential for teams to ensure that these reused parts fulfill any new requirements or modifications introduced in the current season, which may include changes in size, weight, material, or functionality. By allowing the reuse of parts that meet these contemporary standards, FIRST emphasizes sustainability, resourcefulness, and the continuous improvement of designs, benefiting the overall learning experience of the robotics teams. In contrast, the incorrect options suggest either a total prohibition against using old parts or conditional approvals that do not reflect the flexibility teams have in reusing components as long as they align with current regulations. This reinforces the idea of maintaining relevance to the rules while encouraging innovation and creativity in the robotics builds.

SAMPLE

7. 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.

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

A. 1

B. 2

C. 3

D. 4

In the context of the FRC Rebuilt 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.

SAMPLE

9. What must teams maintain in addition to the robot itself during a rebuild?

A. A verbal agreement among team members

B. An accurate and detailed build log documenting all changes made

C. A list of parts that were not used

D. A video of the entire rebuild process

Maintaining an accurate and detailed build log documenting all changes made during a rebuild is crucial for several reasons. First, a build log serves as a comprehensive record of the design process, allowing teams to track their modifications, understand the rationale behind changes, and identify which components were effective or required adjustments. This documentation can also be invaluable in troubleshooting issues, as it provides insights into the evolution of the robot and helps pinpoint when and where problems may have originated. Additionally, having a thorough build log can facilitate knowledge transfer among team members, especially as different individuals may participate in various stages of the project. This thorough documentation aligns with the first guideline of the rules, encouraging teams to reflect on their engineering practices and ensure transparency in their build process. The importance of keeping a build log cannot be overstated, as it is not just a requirement but a best practice that contributes to the learning experience in robotics competition.

10. What is the initial penalty for breaking a scoring element?

A. Yellow card

B. Major foul

C. Verbal warning

D. Disqualification

In the context of the FRC rules, the initial penalty for breaking a scoring element is a verbal warning. This serves as a way for referees to communicate to teams that a specific rule has been violated without immediately imposing a more severe penalty. A verbal warning allows teams to correct their behavior and understand what is considered against the rules before facing any further consequences. The rationale for this approach is to promote learning and adherence to the rules while maintaining the competitive integrity of the event. It creates an opportunity for teams to adjust their strategies without the significant repercussions that other penalties would impose, fostering a more positive and constructive environment during competitions. While other penalties like yellow cards, major fouls, or disqualification are applicable in more severe breaches or repeated infractions, the initial response is intended to provide a chance for teams to rectify their actions. This progressive discipline approach helps in educating teams about the rules while still encouraging competitive play.

SAMPLE

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