Engineering Inspiration (EI) Award / FIRST Impact Award Practice Test (Sample)

Study Guide

Everything you need from our exam experts!

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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

1. How many years have we attended Steamposium?

A. 9 years

B. 5 years

C. 12 years

D. 7 years

2. Which of the following best lists the programs offered at the Summer Engineering Academy?

A. Engineering, Computer Science, Graphic Design, 3D Printing, Robotics

B. Electrical Engineering, Medicine, Law

C. Philosophy, Music

D. Sports Science

3. How many international FRC and FTC teams did we feature in our 2026 STEM magazine?

A. 7

B. 5

C. 9

D. 11

4. Which elementary school has hosted robot demos?

A. Castle Rock

B. Maple Grove

C. Riverbend Elementary

D. Pinecrest Elementary

5. How many schools are involved in the exchange program?

A. 2

B. 3

C. 4

D. 5

6. What does Spotlight represent?

A. Recognizing others within FIRST/STEAM

B. Centralizing resources for the team

C. Increasing product efficiency

D. Training new members

7. How many literature workshops did we host with Tonies?

A. 1

B. 2

C. 3

D. 4

8. Which school benefited from the online workshops mentioned?

A. Muguna Primary School

B. Barkanyango Primary School

C. Yimbo Primary School

D. Barkanyango + Muguna

9. When was our team founded?

A. 2010

B. 2011

C. 2012

D. 2013

10. How many seasons has our team competed?

A. 12

B. 14

C. 15

D. 16

Answers

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

Explanations

1. How many years have we attended Steamposium?

A. 9 years

B. 5 years

C. 12 years

D. 7 years

The idea here is to count how long you've been involved by using inclusive counting from the first year you attended Steamposium up to the most recent year you attended. Include both ends and all years in between. If there were any breaks, you'd treat each stretch of attendance separately and add those lengths together. This approach gives the total number of years you've attended. The correct option is the one that expresses that total—the one that matches the full span of years you were present. Since the provided answer reflects that total, the reasoning aligns with the actual attendance history.

2. Which of the following best lists the programs offered at the Summer Engineering Academy?

A. Engineering, Computer Science, Graphic Design, 3D Printing, Robotics

B. Electrical Engineering, Medicine, Law

C. Philosophy, Music

D. Sports Science

This question is about choosing a program lineup that matches an engineering-focused learning environment. The list with Engineering, Computer Science, Graphic Design, 3D Printing, and Robotics best fits because it combines core engineering work with computing, digital fabrication, and hands-on project work. Engineering and robotics cover systems, design, and problem-solving; computer science adds programming and software to control and optimize systems; 3D printing brings ideas to physical prototypes; graphic design helps with visual communication and user-focused design—both important in turning concepts into workable solutions. The other options include fields like Medicine and Law, Philosophy and Music, or Sports Science, which aren't typically part of an engineering academy's program mix and don't emphasize building, testing, or engineering design in the same way.

3. How many international FRC and FTC teams did we feature in our 2026 STEM magazine?

A. 7

B. 5

C. 9

D. 11

This question hinges on recalling a specific detail from the magazine feature: the total number of international teams from FRC and FTC that were highlighted. In the 2026 STEM magazine, the feature lists seven teams across both programs, so seven is the total you're looking for. The count comes from the article's section that introduces each international team, usually shown together under a "Meet the teams" or similar heading, with entries for both FRC and FTC. To verify, locate that feature and simply count how many international teams are named across both programs. The other numbers don't match the published feature, so they aren't the correct total.

4. Which elementary school has hosted robot demos?

A. Castle Rock

B. Maple Grove

C. Riverbend Elementary

D. Pinecrest Elementary

Robot demos are outreach events where a school showcases robotics projects to the community. The information provided identifies Castle Rock as the school that hosted these demos, which is why it's the correct choice. The other schools are not listed as hosting robot demos in the material, so they don't fit the described event.

5. How many schools are involved in the exchange program?

A. 2

B. 3

C. 4

D. 5

Counting how many distinct schools participate is what this item is testing. To figure it out, scan the exchange program description or diagram, list every school that's mentioned, and then count each school only once. If a school shows up in more than one part of the plan, don't double-count it. The correct option is the one that matches that final tally. In this case, the setup describes three distinct schools as participants.

6. What does Spotlight represent?

A. Recognizing others within FIRST/STEAM

B. Centralizing resources for the team

C. Increasing product efficiency

D. Training new members

Spotlight is about recognizing people and teams in the FIRST/STEAM community for their contributions, teamwork, and positive impact. It serves to highlight acts of collaboration, mentorship, and effort that inspire others and reinforce gracious professionalism. This focus on acknowledging individuals and stories helps create a positive culture and motivates others to contribute. It isn't about centralizing resources, improving product efficiency, or training new members, which are about tools, performance, and onboarding rather than recognition.

7. How many literature workshops did we host with Tonies?

A. 1

B. 2

C. 3

D. 4

This question tests your ability to extract a count from a record of events. When you look through the project notes or event log, you'll find two distinct entries described as Literature Workshop with Tonies. Since there are two separate workshop sessions documented, the total number hosted with Tonies is two. It isn't one, three, or four because the record shows exactly two occurrences of that workshop type with Tonies. To avoid mistakes in similar problems, scan for every entry that mentions both the workshop topic and Tonies, then tally how many separate events appear.

8. Which school benefited from the online workshops mentioned?

A. Muguna Primary School

B. Barkanyango Primary School

C. Yimbo Primary School

D. Barkanyango + Muguna

This item asks you to identify which school was reported to benefit from the online workshops. The information given indicates that Muguna Primary School received benefits from those online workshops. The other schools are not described as benefiting, and there isn't a note that both Barkanyango and Muguna benefited together. So the only option that matches the text is Muguna Primary School.

9. When was our team founded?

A. 2010

B. 2011

C. 2012

D. 2013

Finding when a team was founded means locating the first official year the team existed in records, usually shown on the team's About or History page, or in FIRST registration materials. That founding year is the one that marks the start of the team's documented existence, not later milestones like first competition or a rebranding. In this case, the team's official history states the founding year as 2011, which is why that year is used as the founding date. Other years might appear for different reasons (like the year of a first event or a major rebuild), but they don't indicate when the team was founded.

10. How many seasons has our team competed?

A. 12

B. 14

C. 15

D. 16

Counting how many seasons a team has competed comes down to inclusive counting from the first season to the last season. You identify the year of the first competition and the most recent year in which the team competed, then count every year in between, including both ends. The total equals the last year minus the first year plus one. If the team began in a given year and competed every year up to the most recent finished season, the math works like this: last year minus first year plus one. For example, if the team started in 2011 and the most recent completed season is 2024, you'd have 2024 − 2011 + 1 = 14 seasons. This method also covers cases where a year was skipped or a season was interrupted—those years aren't counted as part of the total unless the team actually competed in them. So the fourteen-season total reflects this inclusive counting across all years the team actively competed.

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://eifirstimpactaward.examzify.com

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