

FDOT CONCRETE FIELD INSPECTOR SPECIFICATION PRACTICE EXAM (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE**

<https://fdotconcretefieldinspectorspecs.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. 5.00 gallons added on-site corresponds to which parameter?**
 - A. Fly Ash Certification
 - B. Chloride Test Results
 - C. Total Mixing Revolutions
 - D. Water Addition at Jobsite

- 2. How many cylinder specimens are typically produced from a batch to test strength, and how should they be identified?**
 - A. A minimum of two or more per batch; label cylinders with batch and pour date and assign a unique ID to each cylinder.
 - B. A fixed two cylinders per batch, with no labeling.
 - C. Ten cylinders per batch, but only the batch ID is required.
 - D. One cylinder per batch, labeled by color.

- 3. What safety practices should the field inspector follow on a concrete placement site?**
 - A. Use PPE, maintain safe access, watch for hazards, follow site safety plans, and report unsafe conditions.
 - B. Wear sandals.
 - C. Do not report hazards.
 - D. Never use PPE.

- 4. Cylinder Size Selection is required for acceptance of produced concrete. Which criterion does this pertain to?**
 - A. Cylinder Size Selection
 - B. Acceptance of Non-structural Concrete
 - C. Water-Cementitious Ratio (Acceptance)
 - D. Chloride Content Certification

- 5. What should be checked to ensure air content aligns with the mix design?**
 - A. Mix design and testing to ensure proper microscale air voids; dosed per design.
 - B. Only the color of the cement.
 - C. The weather forecast for the day.
 - D. The size of the project crew.

- 6. What documentation is required for each cylinder set from a pour?**
- A. Batch/mix design ID, pour date/time, location, cylinder numbers, curing method, and test results.
 - B. Only the pour date.
 - C. Cylinder color and weight.
 - D. Temperature of ambient air.
- 7. Measured moisture percentage for aggregates refers to which data item?**
- A. Air Content Measurement
 - B. Chloride Test Results
 - C. Moisture Content
 - D. Water Addition at Jobsite
- 8. How does FDOT specify surface tolerances for finished concrete?**
- A. Surface finish tolerances per project specs for flatness, levelness, and texture; inspector compares to plan.
 - B. Only vertical alignment matters.
 - C. Only color uniformity matters.
 - D. Only compressive strength matters.
- 9. Which term confirms the source of the concrete supply is approved for use?**
- A. Concrete Surface Inspection
 - B. Vibrator Use
 - C. FDOT Concrete Source
 - D. Tremie Pipe Placement
- 10. What is the purpose of proper bond-breaking adhesives or bonding agents in repairs?**
- A. Improve adhesion of repair material to old concrete and ensure durability.
 - B. Prevent stamping on new repairs.
 - C. Alter color matching of repair material.
 - D. Increase curing time.

Answers

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

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Explanations

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1. 5.00 gallons added on-site corresponds to which parameter?

- A. Fly Ash Certification
- B. Chloride Test Results
- C. Total Mixing Revolutions
- D. Water Addition at Jobsite**

The amount in gallons refers to how much water was added to the concrete at the jobsite. That is exactly what the parameter Water Addition at Jobsite measures: the volume of water introduced during placement to adjust workability and slump, while still tracking the impact on the mix's water-to-cement ratio. The other items involve different kinds of measurements: fly ash certification is about material certification (usually a percentage or content verified by supplier), chloride test results are chemical content measurements, and total mixing revolutions are a process parameter describing how many times the mixer turns, not a volume of water. So 5.00 gallons added on-site corresponds to water addition at the jobsite.

2. How many cylinder specimens are typically produced from a batch to test strength, and how should they be identified?

- A. A minimum of two or more per batch; label cylinders with batch and pour date and assign a unique ID to each cylinder.
- B. A fixed two cylinders per batch, with no labeling.
- C. Ten cylinders per batch, but only the batch ID is required.**
- D. One cylinder per batch, labeled by color.

The main point is that strength testing uses more than one cylinder from each concrete batch, and every cylinder must be clearly identified so its test results can be traced back to the exact batch and pour date. In FDOT practice, you generate several cylinders from each batch to get a representative strength result, and you label each cylinder with the batch number, the pour date, and a unique cylinder ID. This combination ensures you can tie the results to the specific batch and curing history, and you can track which cylinder was tested at which age (for example, 7 days and 28 days). Relying on a single cylinder or not providing unique IDs undermines traceability and the ability to average results across multiple specimens. Producing an adequate number of cylinders (commonly six per batch in many specifications) and giving each cylinder its own identifying information keeps testing reliable and traceable.

3. What safety practices should the field inspector follow on a concrete placement site?

- A. Use PPE, maintain safe access, watch for hazards, follow site safety plans, and report unsafe conditions.**
- B. Wear sandals.
- C. Do not report hazards.
- D. Never use PPE.

Safety on a concrete placement site hinges on protecting workers through proper PPE, keeping access routes clear, staying alert to hazards, following the site safety plan, and promptly reporting unsafe conditions. A field inspector should verify that everyone wears the required PPE (hard hats, eye protection, gloves, hi-visibility vests, boots, etc.), ensure work areas and access paths are kept open and free of obstructions, and constantly watch for slip, trip, fall, or equipment movement hazards. Adhering to the site safety plan ensures project-specific procedures—like formwork stability, weather considerations, and curing operations—are followed, reducing risk and keeping the project compliant with FDOT requirements. Reporting unsafe conditions without delay helps prevent accidents and demonstrates a commitment to a safe work environment. Wearing sandals is unsafe, not reporting hazards increases risk, and never using PPE leaves workers unprotected.

4. Cylinder Size Selection is required for acceptance of produced concrete. Which criterion does this pertain to?

- A. Cylinder Size Selection**
- B. Acceptance of Non-structural Concrete
- C. Water-Cementitious Ratio (Acceptance)
- D. Chloride Content Certification

The key idea is that the strength you use to accept concrete comes from test cylinders, and the size of those cylinders directly affects the measured strength. FDOT specifies a particular cylinder dimension for strength tests so that results are consistent, comparable, and truly reflect the produced concrete's performance. Choosing the correct cylinder size ensures the strength result used for acceptance is valid; if the size isn't as specified, the test data may not properly represent how the concrete will perform in the field, making the acceptance decision unreliable. So, the criterion in question is about Cylinder Size Selection because it governs the test specimen geometry used for strength-based acceptance. Other criteria touch on different quality aspects, such as acceptance of non-structural concrete, the water-cementitious ratio used in acceptance, or chloride content certification. These are separate considerations from the cylinder size used for strength testing.

5. What should be checked to ensure air content aligns with the mix design?

- A. Mix design and testing to ensure proper microscale air voids; dosed per design.**
- B. Only the color of the cement.
- C. The weather forecast for the day.
- D. The size of the project crew.

Air content and the microscale air void system determine how durable the concrete will be, so the field check must confirm that the mix design's targets are actually achieved. The mix design specifies a target air content and the corresponding dosage of air-entraining admixture to produce the intended number, size, and spacing of air voids. In practice, you verify that the batch was dosed per that design and that the measured air content falls within the design's specified range. The proper microscale air voids—those tiny, well-distributed voids that help resist freeze-thaw—depend on getting the admixture dosage and mixing right, so alignment with the design ensures the intended performance. Things like color, weather, or crew size don't influence this aspect of the mix.

6. What documentation is required for each cylinder set from a pour?

- A. Batch/mix design ID, pour date/time, location, cylinder numbers, curing method, and test results.**
- B. Only the pour date.
- C. Cylinder color and weight.
- D. Temperature of ambient air.

Documentation for each cylinder set is about traceability of the concrete strength tests. You need the batch or mix design ID so you know exactly what mix was used. Recording the pour date and time and the pour location links the specimens to a specific placement and field conditions. Listing cylinder numbers ties each physical specimen to its record so the test results can be matched to the right sample. Documenting the curing method is essential because curing conditions influence strength development, and the test results themselves provide the data used for acceptance and quality control. Just noting the pour date doesn't give the full traceability; cylinder color and weight don't establish the necessary project records or curing details; and ambient temperature alone doesn't provide the required chain of custody and test data.

7. Measured moisture percentage for aggregates refers to which data item?

- A. Air Content Measurement
- B. Chloride Test Results
- C. Moisture Content**
- D. Water Addition at Jobsite

Measured moisture percentage for aggregates is the moisture content of the aggregates. It tells you how much free water is already present in the aggregate at batching, expressed as a percent of the aggregate's dry weight. This value is used to adjust the batch water so the final water–cement ratio matches the design: if the aggregates are wetter than assumed, you reduce water; if they're drier, you may need to add more water. This is distinct from air content measurements (which relate to air voids in fresh concrete), chloride test results (which relate to potential corrosion), or the water added at the jobsite (which is the actual water put into the mix and must be reconciled with the aggregate moisture content).

8. How does FDOT specify surface tolerances for finished concrete?

- A. Surface finish tolerances per project specs for flatness, levelness, and texture; inspector compares to plan.**
- B. Only vertical alignment matters.
- C. Only color uniformity matters.
- D. Only compressive strength matters.

FDOT specifies finished concrete surface tolerances in the project specifications and plans, covering three aspects: flatness, levelness, and texture. The inspector's job is to compare the actual finished surface to the plan's requirements, using standard measurement methods for each aspect (for example, checks over defined lengths to assess flatness and levelness, and a texture assessment to ensure the pattern and depth meet the spec). This ensures the surface will ride smoothly, drain properly, and present the required appearance. Choices that focus only on vertical alignment, color uniformity, or compressive strength miss the essential finish criteria defined for the surface of the concrete, which is why the correct approach is to specify and verify flatness, levelness, and texture against the plan.

9. Which term confirms the source of the concrete supply is approved for use?

- A. Concrete Surface Inspection
- B. Vibrator Use
- C. FDOT Concrete Source**
- D. Tremie Pipe Placement

The main idea here is that the concrete being used must come from a supplier that FDOT has expressly approved. The term "FDOT Concrete Source" signals that the plant and batch source have gone through FDOT's qualification process and are on the approved list. This lets you, as an inspector, rely on the material coming from that source to meet the project's mix design, quality control, and testing requirements. In practice, you'd verify that the batch ticket and delivery tickets reference an FDOT-approved source, and you'd check that the plant is listed as such in the FDOT Approved Concrete Sources. If the source isn't approved, the concrete from that source should not be used until it goes through the proper approval process. The other options relate to different aspects of concrete work: surface inspection deals with the finished surface condition, vibrator use concerns consolidation, and tremie pipe placement concerns underwater placement. None of these indicate that the concrete supply is approved.

10. What is the purpose of proper bond-breaking adhesives or bonding agents in repairs?

- A. Improve adhesion of repair material to old concrete and ensure durability.**
- B. Prevent stamping on new repairs.
- C. Alter color matching of repair material.
- D. Increase curing time.

The main idea is to ensure the repair material sticks to the existing concrete so the repaired area behaves as a single, durable piece. A bonding agent improves adhesion at the interface between new repair material and old concrete, helping transfer stresses and preventing separation under load, moisture, or freeze–thaw cycles. It also fills micro-voids and seals the surface to reduce pathways for water and chemicals, which protects the repair and the surrounding structure. This is why using a proper bonding agent leads to a more reliable, long-lasting repair. Stamps or decorative patterns aren't the function of bonding agents, color matching is a cosmetic consideration rather than a structural one, and curing time is not the goal of bonding agents and can even be affected in unintended ways by additives.

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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://fdotconcretefieldinspectorspecs.examzify.com>

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

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