

# DEQ Stormwater Management Inspector 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

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- 1. What is the primary function of an armored spillway?**
  - A. To safely convey excess stormwater flow while preventing erosion.**
  - B. To reduce water velocity within the drainage system.**
  - C. To filter pollutants from runoff.**
  - D. To store sediment in a basin.**
  
- 2. In MS4 operations, what is the primary goal of the Annual Inspection/Monitoring Program?**
  - A. To measure the cost of compliance**
  - B. To identify illicit discharges, failing BMPs, and noncompliant practices, and implement corrective actions with proper documentation.**
  - C. To perform only visual audits**
  - D. To replace BMPs on a fixed schedule regardless of condition**
  
- 3. Which pollutant is primarily targeted by sediment controls in runoff?**
  - A. Total dissolved solids.**
  - B. Nutrients.**
  - C. Bacteria.**
  - D. Total Suspended Solids.**
  
- 4. What is the primary objective of stormwater management under DEQ regulations?**
  - A. To minimize costs by reducing inspector visits.**
  - B. To maximize land development and accelerated project timelines.**
  - C. To rely solely on downstream treatment facilities.**
  - D. To prevent pollutant-laden runoff from reaching waters of the Commonwealth by controlling erosion, sediment, and other pollutants at construction and development sites and through proper BMPs in post-construction.**
  
- 5. In a storage basin, a riser primarily functions to:**
  - A. Direct water to downstream channels.**
  - B. Filter pollutants from runoff.**
  - C. Control the water level within the basin or pond.**
  - D. Improve groundwater recharge.**

- 6. Which materials can be used to construct check dams in grass channels?**
- A. Plastic sheeting**
  - B. Wood, gabions, riprap, or concrete underlain with filter fabric**
  - C. Steel**
  - D. Concrete blocks**
- 7. What are the steps to convert a sediment basin to a wet pond?**
- A. Dewater, Dredge, and Regrade**
  - B. Dredge, Regrade, and Dewater**
  - C. Dewater and Regrade**
  - D. Dewater, Dredge, and Remove**
- 8. Maximum Penalty under the Stormwater Act**
- A. \$32,500**
  - B. \$10,000**
  - C. \$50,000**
  - D. \$75,000**
- 9. What is the purpose of post-construction stabilization and its timing relative to project completion?**
- A. To prevent erosion after construction ends; stabilize disturbed areas as soon as final grading is complete or before final site approval.**
  - B. To delay site approval while stabilization is planned.**
  - C. To install decorative features after occupancy.**
  - D. To remove vegetation after construction.**
- 10. What is an outfall log and why is it important for DEQ reporting?**
- A. A log of rainfall at the site only.**
  - B. A record of all stormwater outfalls with location, conditions, observations, and any sampling results.**
  - C. A log of all employees who visited the site.**
  - D. A list of equipment used on site.**

## **Answers**

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

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## **Explanations**

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**1. What is the primary function of an armored spillway?**

- A. To safely convey excess stormwater flow while preventing erosion.**
- B. To reduce water velocity within the drainage system.**
- C. To filter pollutants from runoff.**
- D. To store sediment in a basin.**

Armored spillways are built to carry excess water safely while protecting the structure from erosion. The armored surface—usually rock or reinforced concrete—resists the powerful forces of high-velocity flow that can scour and undermine a spillway and downstream channels. By providing a hard, erosion-resistant path for the outflow, it keeps the discharge route stable and reduces the risk of channels or embankments being washed out during peak storms. This isn't primarily about reducing velocity throughout the drainage system, filtering pollutants, or storing sediment. Those tasks belong to other stormwater features like energy dissipators, filters, or sediment basins. The main purpose here is to convey excess water without causing erosive damage.

**2. In MS4 operations, what is the primary goal of the Annual Inspection/Monitoring Program?**

- A. To measure the cost of compliance**
- B. To identify illicit discharges, failing BMPs, and noncompliant practices, and implement corrective actions with proper documentation.**
- C. To perform only visual audits**
- D. To replace BMPs on a fixed schedule regardless of condition**

The main idea of the annual inspection/monitoring program is to actively identify problems that affect stormwater quality—such as illicit discharges, failing BMPs, and practices that don't meet permit requirements—and to fix them, with thorough documentation of what was found and what actions were taken. This approach targets the sources of pollution and ensures the system continues to meet regulatory obligations, while also providing a clear record for accountability and future improvements. Visual audits alone can miss hidden or evolving issues, and measuring cost of compliance doesn't address actual pollution sources or performance. Replacing BMPs on a fixed schedule without regard to their condition or effectiveness can waste resources and fail to address current problems.

**3. Which pollutant is primarily targeted by sediment controls in runoff?**

- A. Total dissolved solids.**
- B. Nutrients.**
- C. Bacteria.**
- D. Total Suspended Solids.**

Sediment controls are designed to keep soil particles from leaving a construction site by preventing erosion and by capturing particles carried by stormwater. The pollutant these controls target most directly is the sediment itself, measured as Total Suspended Solids, because these are the particles that remain suspended in runoff and can be trapped by barriers or settled out in basins. Total dissolved solids are minerals that are dissolved in water and aren't removable by sediment controls, so they're not the primary target. Nutrients and bacteria can be transported with runoff, but the primary focus of sediment controls is the particulate matter—Total Suspended Solids.

**4. What is the primary objective of stormwater management under DEQ regulations?**

- A. To minimize costs by reducing inspector visits.**
- B. To maximize land development and accelerated project timelines.**
- C. To rely solely on downstream treatment facilities.**
- D. To prevent pollutant-laden runoff from reaching waters of the Commonwealth by controlling erosion, sediment, and other pollutants at construction and development sites and through proper BMPs in post-construction.**

The main idea is protecting water quality by stopping pollutants from entering waters of the Commonwealth at the source. DEQ regulations focus on preventing pollutant-laden runoff by controlling erosion, sediment, and other pollutants at construction and development sites and by applying proper post-construction best management practices (BMPs). This source-control approach is what minimizes the amount of polluted runoff that can reach streams, rivers, and lakes. Why this is the best fit: it aligns with the goal of safeguarding water resources, using erosion and sediment controls during construction and implementing effective BMPs after development to manage stormwater flows and pollutant loads. It treats runoff before it can cause harm, rather than relying on downstream treatment alone or trying to speed up development or cut oversight. Why the other ideas don't fit: focusing on reducing inspector visits or accelerating development places economic considerations above water protection, which is not the regulatory aim. Relying solely on downstream treatment ignores the need to prevent pollutants from entering waterways in the first place, which is a core part of DEQ's approach to stormwater management.

**5. In a storage basin, a riser primarily functions to:**

- A. Direct water to downstream channels.**
- B. Filter pollutants from runoff.**
- C. Control the water level within the basin or pond.**
- D. Improve groundwater recharge.**

Risers in storage basins act as the outlet control, setting the height at which water can leave the basin. By providing a fixed opening at a specific elevation, the riser regulates when and how much water drains, which keeps the water surface at the intended level, preserves the designed storage volume, and shapes the outflow to meet detention criteria. This stable water level is the key reason the riser is used. Pollutant removal is typically achieved by sedimentation within the basin or by treatment devices, not by the riser itself. While water must eventually exit through the outlet, the riser's primary role is not directing water downstream on its own, but controlling the basin's water level to manage storage and detention time. And groundwater recharge depends on infiltration capacity and design specifics; the riser's function remains controlling the water level rather than directly enhancing recharge.

**6. Which materials can be used to construct check dams in grass channels?**

- A. Plastic sheeting**
- B. Wood, gabions, riprap, or concrete underlain with filter fabric**
- C. Steel**
- D. Concrete blocks**

In grass channels, check dams should slow flow, trap sediment, and stay stable without cutting off natural vegetation or causing downstream erosion. Materials that are sturdy yet permeable and can be anchored or tied together work best, especially when paired with a filter fabric underneath to keep fines from washing through. Wood, gabions (wire baskets filled with rock), riprap (rock armor), or concrete set underlain with filter fabric provide the right balance: they create roughness to reduce velocity, offer structural resistance to being displaced by flow, and, with the fabric, prevent piping of fine soils so the dam remains effective over time. Other options fall short for these uses. Plastic sheeting is impermeable and not durable in a channel environment, making it prone to tearing and failure. Steel can corrode and become unstable in wet, soil-packed conditions, and it often isn't as adaptable or easy to maintain in grassy channels. Concrete blocks alone may be heavy and rigid, can shift or create concentrated flow paths, and typically don't incorporate a sediment-controlling fabric as part of the dam assembly.

**7. What are the steps to convert a sediment basin to a wet pond?**

- A. Dewater, Dredge, and Regrade**
- B. Dredge, Regrade, and Dewater**
- C. Dewater and Regrade**
- D. Dewater, Dredge, and Remove**

Converting a sediment basin into a wet pond requires a practical sequence: remove the water, remove the accumulated sediment, and then shape the basin to the desired final form. Dewatering first is essential because with the basin drained you can access the floor, inspect structures, and perform large earthwork without the interference of standing water. Once it is dry, dredging follows to physically remove the built-up sediment that has filled the basin and reduced storage capacity, so the pond can hold the intended water volume and the outlet structures function correctly. After the sediment has been removed, regrading is done to establish the proper bottom elevations and side slopes for a functioning wet pond, ensuring the permanent pool depth and safe, stable geometry around the outlet and embankments. Skipping dredging or trying to regrade without removing the sediment would prevent achieving the required water storage and drainage performance, so the three steps in that order best accomplish the conversion.

**8. Maximum Penalty under the Stormwater Act**

- A. \$32,500**
- B. \$10,000**
- C. \$50,000**
- D. \$75,000**

Penalties under the Stormwater Act are capped by a fixed amount defined in the statute. This ceiling is the highest civil penalty the Act allows for a violation. The correct choice reflects that statutory cap—the number that matches the act’s defined maximum. The other figures do not represent the limit set by the Act, so they aren’t the maximum you’d face under enforcement. Knowing this helps you understand the enforcement risk and communicate the potential consequence to permittees clearly.

**9. What is the purpose of post-construction stabilization and its timing relative to project completion?**

- A. To prevent erosion after construction ends; stabilize disturbed areas as soon as final grading is complete or before final site approval.**
- B. To delay site approval while stabilization is planned.**
- C. To install decorative features after occupancy.**
- D. To remove vegetation after construction.**

Post-construction stabilization is about protecting exposed soil from erosion and preventing sediment from leaving the site after construction disturbs the land. The goal is to establish cover and stabilization quickly so rainfall or wind doesn't wash soil into waterways or storm drains, safeguarding water quality and site stability as the project wraps up. The timing should be as soon as final grading is completed and before final site approval, so the stabilized condition is in place before the site is deemed complete and handed over. Other options don't fit because delaying approvals isn't the purpose, adding decorative features isn't about erosion control, and removing vegetation would worsen erosion rather than prevent it.

**10. What is an outfall log and why is it important for DEQ reporting?**

- A. A log of rainfall at the site only.**
- B. A record of all stormwater outfalls with location, conditions, observations, and any sampling results.**
- C. A log of all employees who visited the site.**
- D. A list of equipment used on site.**

An outfall log is a record of stormwater discharges from a site's outfalls, including where the outfalls are located, the conditions at discharge, observations of the runoff, and any sampling results. This record is important for DEQ reporting because it provides a traceable history of discharges tied to specific outfalls and rainfall events, helping inspectors verify compliance, track water-quality concerns, and identify actions needed to protect the receiving water. For each discharge, note the outfall location or identifier, date and time, rainfall event, flow conditions, and observable factors such as color, turbidity, odor, plus any sampling data (pH, contaminants) and notes about BMPs or site activities. Linking data to specific outfalls enables assessment of overall stormwater management performance and supports rapid response if problems arise. It's not just a log of rainfall, nor a record of employees or equipment, since those do not document discharges or water-quality observations.

## 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](mailto:hello@examzify.com).**

**Or visit your dedicated course page for more study tools and resources:**

**<https://deqstormwatermgmtinspector.examzify.com>**

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