# Sedimentation and Erosion Control Certification Practice Exam (Sample)

**Study Guide** 



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### **Questions**



- 1. Water erosion can be classified as which types?
  - A. Sheet and gully
  - B. Stream and rill
  - C. Overland and stream
  - D. Splash and sheet
- 2. Which situation would indicate a need for erosion control measures?
  - A. Extensive vegetation growth
  - B. Visible signs of soil erosion
  - C. Water retention in soil
  - D. Stable ground conditions
- 3. How do Type D soils rank concerning infiltration rates and runoff potential?
  - A. High, low
  - B. Low, high
  - C. Moderate, moderate
  - D. Variable, high
- 4. What is the appropriate placement direction for turbidity curtains relative to the flow?
  - A. Perpendicular
  - B. Parallel
  - C. Opposite
  - D. Diagonal
- 5. What contributes to the effectiveness of a sediment trap?
  - A. Its depth and the surrounding landscape
  - **B.** Its color and location
  - C. Its proximity to human activity
  - D. Its ability to repel wildlife

- 6. What is a construction permit in the context of erosion control?
  A. A temporary license for starting construction
  B. A legal authorization requiring sediment control compliance
  C. A document outlining worker safety procedures
  - D. A guideline for aesthetic landscaping
- 7. What is the threshold for land disturbance that triggers the need for a CGP?
  - A. 0.5 acres or more
  - B. 1 acre or more
  - C. 2 acres or more
  - D. 3 acres or more
- 8. Which erosion type is specific to the flow of water over land?
  - A. Rill erosion
  - **B.** Sheet erosion
  - C. Gully erosion
  - D. All of the above
- 9. A temporary gravel construction entrance must extend the full width of the entrance. It must be at least \_\_\_\_ ft long and \_\_\_ in thick.
  - A. 20, 4
  - B. 50, 4
  - C. 50, 6
  - D. 50, 8
- 10. How often should sediment basins be inspected during construction?
  - A. Weekly
  - B. Bi-weekly
  - C. Monthly
  - D. Only after heavy rain

#### **Answers**



- 1. C 2. B
- 3. B

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



### **Explanations**



#### 1. Water erosion can be classified as which types?

- A. Sheet and gully
- B. Stream and rill
- C. Overland and stream
- D. Splash and sheet

Water erosion can be classified into several types based on the process and the characteristics of the erosion. The correct answer highlights the distinction between overland flow and stream flow, which are two primary categories of water erosion. Overland erosion occurs when water flows over the land surface, detaching and transporting soil particles as it moves. This can happen during rainfall events where the intensity of the rainfall exceeds the infiltration capacity of the soil, leading to water pooling and moving across the surface. This type of erosion can cause significant soil loss, particularly on slopes where the water's velocity increases. Stream erosion, on the other hand, refers to the erosion that takes place in rivers, streams, or other water bodies. As water flows within a channel, it has the power to erode the banks and the bed of the waterway, cutting into the soil and rock and reshaping the landscape over time. Stream erosion can be influenced by factors such as water velocity, sediment load, and the characteristics of the banks and bed. Together, these classifications help individuals understand the mechanisms and impacts of water erosion, which is crucial for developing effective erosion control practices and management strategies. Recognizing the difference allows for targeted interventions to mitigate erosion effects, protect water quality, and preserve soil health

## 2. Which situation would indicate a need for erosion control measures?

- A. Extensive vegetation growth
- B. Visible signs of soil erosion
- C. Water retention in soil
- D. Stable ground conditions

Visible signs of soil erosion clearly indicate that the soil is being worn away faster than it can regenerate. This situation can lead to a multitude of problems, including loss of soil fertility, sedimentation in nearby water bodies, and degradation of land quality. The presence of erosion signifiers such as rills, gullies, or exposed roots serves as an urgent call to implement erosion control measures. These measures could include planting vegetation, maintaining ground cover, or utilizing barriers to slow down water flow and protect the topsoil. Extensive vegetation growth suggests a healthy and stable ecosystem, which generally contributes to soil stability, while water retention in soil indicates an effective moisture balance that helps support vegetation and reduce erosion. Stable ground conditions likewise suggest that erosion control is not immediately necessary, as the soil is not experiencing significant loss. Therefore, the only situation that demands immediate attention for erosion control measures is the visible signs of soil erosion.

## 3. How do Type D soils rank concerning infiltration rates and runoff potential?

- A. High, low
- B. Low, high
- C. Moderate, moderate
- D. Variable, high

Type D soils are characterized by their low infiltration rates and high runoff potential. This classification indicates that these soils have a limited ability to absorb water due to their typically heavy texture, which often includes clay. Clay particles pack closely together, creating a barrier that hinders the movement of water into the soil. As a result, when it rains, more water runs off the surface rather than being absorbed, leading to increased runoff potential. Understanding the implications of Type D soils is critical in sedimentation and erosion control efforts. Since these soils are prone to runoff, they may contribute to erosion and sediment transport issues, particularly during significant rainfall events. This highlights the importance of implementing appropriate erosion control measures in areas with Type D soils to manage the runoff effectively and reduce soil degradation.

## 4. What is the appropriate placement direction for turbidity curtains relative to the flow?

- A. Perpendicular
- **B.** Parallel
- C. Opposite
- D. Diagonal

The appropriate placement direction for turbidity curtains is parallel to the flow of water. This orientation allows the curtain to effectively intercept and contain suspended sediments within the water column, preventing them from spreading downstream. When turbidity curtains are installed parallel to the flow, they create a barrier that encourages sediment to settle out of the water while minimizing the disturbance caused by the curtain itself. Placing turbidity curtains in any direction other than parallel, such as perpendicular, opposite, or diagonal, can lead to inefficiencies in capturing sediments. These orientations may allow suspended particles to bypass the curtain more easily or can cause unwanted turbulence that further disperses sediments instead of containing them. Therefore, orienting the turbidity curtain parallel to the water flow is the optimal choice for sediment and erosion control in aquatic environments.

#### 5. What contributes to the effectiveness of a sediment trap?

- A. Its depth and the surrounding landscape
- B. Its color and location
- C. Its proximity to human activity
- D. Its ability to repel wildlife

The effectiveness of a sediment trap is significantly influenced by its depth and the surrounding landscape. The depth of the trap is critical because it determines the volume of water that can be held, allowing for proper settling time for sediment to accumulate. A deeper trap can capture larger amounts of sediment before overflow occurs, thus enhancing its overall performance. Additionally, the surrounding landscape plays a vital role in directing sediment-laden water toward the trap. When the landscape is appropriately graded and designed, it can effectively channel runoff into the trap, minimizing sediment movement off-site. This integrated approach ensures that the trap functions optimally, capturing sediment before it can enter nearby water bodies. While other factors, such as color, location regarding human activity, and wildlife interactions, can influence the sediment trap's functionality, they do not directly enhance its core purpose of sediment capture as effectively as depth and landscape design do.

## 6. What is a construction permit in the context of erosion control?

- A. A temporary license for starting construction
- B. A legal authorization requiring sediment control compliance
- C. A document outlining worker safety procedures
- D. A guideline for aesthetic landscaping

A construction permit specifically refers to the legal authorization that ensures compliance with sediment control regulations. This permit is essential because it mandates that construction activities take necessary precautions to manage erosion and sedimentation effectively. Such regulations are in place to protect water quality and the environment from the negative impacts of construction activities, which can lead to soil erosion and sediment runoff into nearby water bodies. When a construction permit is issued, it typically includes requirements for erosion and sediment control measures that must be implemented throughout the project's lifespan. This could involve the installation of silt fences, sediment basins, or other techniques designed to minimize soil disturbance and manage stormwater runoff. Compliance with these measures helps maintain environmental integrity and ensures that developers are held accountable for their impact on the land during and after construction. The other options provided do not capture the essence of what a construction permit entails in relation to erosion control. A temporary license might refer to a short-term authorization but doesn't encompass the comprehensive legal compliance aspect. Similarly, a document outlining worker safety procedures and a guideline for aesthetic landscaping focus on different areas entirely and do not relate to sediment control compliance, which is the core of a construction permit's purpose in this context.

## 7. What is the threshold for land disturbance that triggers the need for a CGP?

- A. 0.5 acres or more
- B. 1 acre or more
- C. 2 acres or more
- D. 3 acres or more

The threshold for land disturbance that requires a Construction General Permit (CGP) is typically set at 1 acre or more. This requirement is significant because the permit is intended to manage the environmental impact of stormwater runoff from construction activities, which can contribute to erosion and sedimentation. When land is disturbed on a scale of 1 acre or more, the risk of sedimentation entering local waterways increases, necessitating increased regulatory oversight to protect water quality. The CGP includes guidelines for implementing best management practices (BMPs) to control erosion and manage sediment during construction activities. By establishing this threshold, regulatory agencies aim to ensure that larger disturbances, which are likely to have a more significant impact on the environment, are monitored and managed effectively. This threshold aligns with the federal regulations under the National Pollutant Discharge Elimination System (NPDES), reinforcing the importance of addressing water quality concerns associated with larger construction sites.

## 8. Which erosion type is specific to the flow of water over land?

- A. Rill erosion
- **B.** Sheet erosion
- C. Gully erosion
- D. All of the above

The type of erosion that is specific to the flow of water over land includes rill erosion, sheet erosion, and gully erosion. Each of these processes involves the movement of water, which is a key factor in their formation. Rill erosion occurs when water concentrates in small channels, forming tiny ditches on the land surface. This process is often noticeable on sloped areas where water runoff can gather, leading to the progressive removal of soil. Sheet erosion, on the other hand, is characterized by the uniform removal of thin layers of soil across large areas, typically caused by rainfall and surface water runoff. It can be difficult to detect initially because the erosion happens gradually and evenly, which can result in significant soil loss over time. Gully erosion represents a more advanced stage of rill erosion and involves the formation of larger channels or gullies as water volume increases and more erosion takes place. This can occur after heavy rainfall or during rapid runoff events, where the force of flowing water can substantially cut into the soil. Therefore, since all three types of erosion are directly related to the movement of water over the land, the correct answer encompasses all of these processes as they share the common characteristic of being caused by water flow.

9. A temporary gravel construction entrance must $\epsilon$	extend the
full width of the entrance. It must be at least	_ ft long and
in thick.	

A. 20, 4

B. 50, 4

C. 50, 6

D. 50, 8

The correct specifications for a temporary gravel construction entrance require it to be at least 50 feet long and 6 inches thick. This design serves multiple purposes: it provides a stable surface for vehicles to enter and exit the construction site, reducing the chance of sediment being tracked onto roadways. The length of 50 feet is crucial as it allows for adequate filtration of dirt and debris from vehicle tires before they leave the site, promoting effective erosion control practices. The thickness of 6 inches ensures that the gravel is sufficiently robust to withstand the traffic without being displaced, maintaining its function over time. Thus, the requirement for both the length and thickness ensures effective sediment control, helping to comply with regulations and prevent environmental impact near the construction area.

## 10. How often should sediment basins be inspected during construction?

- A. Weekly
- **B. Bi-weekly**
- C. Monthly
- D. Only after heavy rain

Sediment basins play a critical role in controlling sediment and runoff during construction activities, as they are designed to capture sediment from stormwater runoff and prevent it from entering water bodies nearby. Regular inspections of sediment basins are vital to ensure they are functioning properly and effectively capturing sediment. Weekly inspections are essential because construction sites can undergo rapid changes with varying weather conditions, site activities, and disturbances that can affect the efficiency of the sediment basins. This frequency allows for prompt identification of factors like clogging, capacity issues, or the need for maintenance, ensuring that the basins remain effective in their primary purpose. Additionally, more frequent inspections enable site managers to assess the accumulation of sediment and determine when it needs to be removed, thus maintaining the basins' design integrity. While other frequencies like bi-weekly or monthly could be applicable in certain situations, they may not adequately address the dynamic nature of active construction sites. Furthermore, relying solely on inspections after heavy rain fails to account for ongoing daily operations and smaller rain events that could lead to sediment problems in the interim. Regular weekly checks are a best practice that helps prepare for and respond effectively to any issues that may arise.