

Certified Associate Constructor (CAC) Level 1 Practice Exam (Sample)

Study Guide



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Questions

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- 1. What is the significance of managing stakeholder expectations in construction projects?**
 - A. It allows the project to proceed without documentation**
 - B. It ensures that project goals align with stakeholder needs and mitigates conflicts**
 - C. It eliminates the need for project reviews**
 - D. It focuses solely on cost reduction measures**
- 2. What does it mean if an activity in a project has zero total float?**
 - A. The activity can be delayed without affecting the project deadline**
 - B. The activity is not on the critical path**
 - C. The activity must start on time to avoid project delays**
 - D. The activity has a flexible schedule**
- 3. What is the primary purpose of a project management timeline?**
 - A. To track project expenses**
 - B. To visualize the sequence and duration of project tasks**
 - C. To assign resources to tasks**
 - D. To provide a status update to stakeholders**
- 4. In construction, what does the term "scope" refer to?**
 - A. The overall budget of the project**
 - B. The site where the project will be built**
 - C. The detailed description of the work required to complete a project**
 - D. The timeline for achieving project milestones**
- 5. A job diary should be maintained by whom?**
 - A. Superintendent**
 - B. Foreman**
 - C. Project manager**
 - D. All members of the project management team**

- 6. Where can you find information regarding materials and construction standards?**
- A. Manufacturer websites**
 - B. Building codes and industry standards**
 - C. On construction sites**
 - D. Team meetings**
- 7. What are the projected completion costs if the to date quantities changed from 124 to 150 and the to date expended costs changed from \$179 to \$225?**
- A. \$1,680**
 - B. \$2,199**
 - C. \$2,224**
 - D. \$3,222**
- 8. When giving presentations, people should do which of the following?**
- A. Present extra information beyond their primary goal to demonstrate their expertise**
 - B. Speak quickly to get in as much information as possible**
 - C. Speak as loudly as possible to ensure they can be heard**
 - D. Keep the conversation short and on topic**
- 9. Which of the following would be considered a dead load?**
- A. Workers**
 - B. Equipment**
 - C. Stored materials**
 - D. Formwork**
- 10. Which of the following is a type of deep foundation?**
- A. crawl space**
 - B. strip footing**
 - C. mat footing**
 - D. caisson**

Answers

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

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Explanations

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1. What is the significance of managing stakeholder expectations in construction projects?

- A. It allows the project to proceed without documentation
- B. It ensures that project goals align with stakeholder needs and mitigates conflicts**
- C. It eliminates the need for project reviews
- D. It focuses solely on cost reduction measures

Managing stakeholder expectations is critical in construction projects for several reasons. This practice involves understanding and addressing the needs, wants, and concerns of all parties involved, such as clients, contractors, suppliers, and the community. By ensuring that project goals align with these stakeholder needs, it fosters collaboration and mutual understanding, which can mitigate potential conflicts that may arise during the project's lifecycle. When stakeholders feel heard and their expectations are managed appropriately, it reduces the likelihood of disputes and misunderstandings, which can lead to delays, budget overruns, or compromised project quality. Effective management of expectations facilitates open communication and can enhance stakeholder satisfaction, ultimately leading to successful project outcomes. The other options highlight misconceptions about project management. For instance, proceeding without documentation can lead to a lack of clarity and accountability, while eliminating project reviews undermines the importance of oversight and assessment. Focusing solely on cost reduction overlooks the broader objectives of delivering quality and meeting stakeholder needs. Therefore, the significance of managing stakeholder expectations lies in its role in aligning goals and preventing conflicts, making the project more likely to succeed.

2. What does it mean if an activity in a project has zero total float?

- A. The activity can be delayed without affecting the project deadline
- B. The activity is not on the critical path
- C. The activity must start on time to avoid project delays**
- D. The activity has a flexible schedule

When an activity in a project has zero total float, this indicates that any delay in completing that activity would directly impact the overall project schedule, making it critical for the activity to start and finish on time. Zero total float means there is no leeway or extra time available for that activity, so it must adhere strictly to its scheduled start and finish dates. If that activity takes longer than planned, it will delay subsequent activities and ultimately push back the project completion date. In contrast, activities that have total float available can be delayed without any immediate repercussions on the project's timeline. Therefore, zero total float signifies that the activity is on the critical path, distinguishing it from activities that might have flexibility in their scheduling.

3. What is the primary purpose of a project management timeline?

- A. To track project expenses**
- B. To visualize the sequence and duration of project tasks**
- C. To assign resources to tasks**
- D. To provide a status update to stakeholders**

The primary purpose of a project management timeline is to visualize the sequence and duration of project tasks. A timeline serves as a graphical representation that illustrates how the various tasks related to a project are organized over time. It helps project managers and team members understand the order in which tasks need to be completed, how long each task will take, and when specific milestones are expected to be achieved. This visualization is crucial for efficient planning and scheduling, as it provides a clear roadmap for the project's progress. While tracking project expenses, assigning resources to tasks, and providing updates to stakeholders are important aspects of project management, they are not the core focus of a timeline. A timeline specifically focuses on task organization and time allocation, making it an essential tool for ensuring that projects stay on schedule and that team members are aware of their responsibilities within the broader context of the project plan.

4. In construction, what does the term "scope" refer to?

- A. The overall budget of the project**
- B. The site where the project will be built**
- C. The detailed description of the work required to complete a project**
- D. The timeline for achieving project milestones**

The term "scope" in construction refers to the comprehensive and detailed description of the work required to complete a project. This definition encapsulates the various tasks, deliverables, and specifications that outline what is included and excluded from the project. Understanding the scope is crucial as it sets the boundaries for the project and provides clarity on what needs to be accomplished. The scope serves as a foundational element for planning, budgeting, scheduling, and resource allocation. It ensures that all stakeholders have a shared understanding of project goals and requirements, which is essential for managing expectations and avoiding scope creep—when additional work is added without proper adjustments to time and budget. By clearly defining the scope, the construction team can maintain focus on the project's objectives throughout its lifecycle. The other options do not provide a clear understanding of the project requirements: - The overall budget relates to financial constraints and funding but does not describe the specific work involved. - The site pertains to the physical location where the project occurs, which is separate from the work needed. - The timeline focuses on scheduling and milestones rather than the actual tasks and deliverables required for project completion.

5. A job diary should be maintained by whom?

- A. Superintendent**
- B. Foreman**
- C. Project manager**
- D. All members of the project management team**

A job diary is a crucial tool in construction project management as it serves to document daily activities, progress, challenges, and decisions made throughout the project. It is important for various members of the project management team to maintain their own entries in a job diary because each role contributes unique insights and observations relevant to the project. The superintendent typically oversees the daily operations on-site, the foreman manages the labor force and ensures tasks are executed effectively, and the project manager oversees the overall project progress and coordination. Each of these individuals has a specific perspective on the project's dynamics, such as labor issues, material deliveries, safety incidents, and schedule changes. By documenting their observations, they contribute to a comprehensive understanding of the project's history. Additionally, having multiple perspectives documented can improve communication among team members and can be vital for effective decision-making and problem resolution. It also ensures that there is a thorough record that may be useful for future reference, compliance, or dispute resolution. Thus, maintaining a job diary is beneficial not just for one specific role, but for the entire project management team, making it essential for all members to engage in this practice.

6. Where can you find information regarding materials and construction standards?

- A. Manufacturer websites**
- B. Building codes and industry standards**
- C. On construction sites**
- D. Team meetings**

Information regarding materials and construction standards is primarily found in building codes and industry standards. Building codes are regulatory requirements that specify the minimum acceptable standards for construction and safety in buildings, which often include material specifications. These codes are developed by national, state, and local authorities to ensure that constructions are safe, reliable, and sustainable. Industry standards, on the other hand, are generally developed by professional organizations, which establish guidelines and best practices for materials and construction processes. These documents provide detailed criteria for various construction elements, helping ensure quality and consistency across projects. While manufacturer's websites can provide specific information about products, including technical data sheets and performance specifications, they are not as comprehensive in terms of regulatory compliance and broader construction practices. Similarly, information found on construction sites may be anecdotal or related to specific projects, lacking the formal authority and detail necessary for understanding standards and codes. Team meetings may involve discussions about standards, but they do not serve as a definitive source of information on materials and construction standards.

7. What are the projected completion costs if the to date quantities changed from 124 to 150 and the to date expended costs changed from \$179 to \$225?

A. \$1,680

B. \$2,199

C. \$2,224

D. \$3,222

To find the projected completion costs based on the provided quantities and expended costs, we first need to determine the cost per unit. This can be calculated by taking the total expended costs and dividing them by the total quantities. Initially, the expended costs were \$179 for 124 units. Therefore, the cost per unit can be calculated as follows: $\text{Cost per unit} = \text{Total expended costs} / \text{Total quantities}$ $\text{Cost per unit} = \$179 / 124$ $\text{Cost per unit} \approx \1.4435 (rounded) Next, we utilize this cost per unit to project costs for the new quantity of 150 units. The projected completion costs can be found by multiplying the cost per unit by the new quantity: $\text{Projected completion costs} = \text{Cost per unit} \times \text{New quantity}$ $\text{Projected completion costs} = \1.4435×150 $\text{Projected completion costs} \approx \216.525 (this step seems to provide a lower projection than indicated by choices). However, if we recognize that the expended costs have increased from \$179 to \$225 for the updated measurement of 150 units, we can utilize the updated value directly to calculate the projected costs similarly. Therefore, we recalculate the projected completion costs considering both the changes in units and

8. When giving presentations, people should do which of the following?

A. Present extra information beyond their primary goal to demonstrate their expertise

B. Speak quickly to get in as much information as possible

C. Speak as loudly as possible to ensure they can be heard

D. Keep the conversation short and on topic

The best practice when giving presentations is to keep the conversation short and focused on the primary topic. This approach helps maintain the audience's attention and ensures that the key points are communicated clearly and effectively. Concentrating on the main message allows for better retention of information by the audience and encourages engagement during the presentation. Being concise also respects the audience's time and can enhance their overall experience, leading to a more impactful presentation. By avoiding additional extraneous information, the presenter minimizes the risk of diluting the main message and keeps the audience aligned with the presentation's objectives. This structured approach is particularly important in environments where attention spans may be limited, emphasizing clarity and relevance to foster understanding and engagement.

9. Which of the following would be considered a dead load?

- A. Workers**
- B. Equipment**
- C. Stored materials**
- D. Formwork**

A dead load refers to the permanent static weight of a structure and its material components. This includes elements that are unlikely to change over time and remain constant throughout the life of the building. Formwork is specifically designed to hold concrete in place while it sets, and once in place, it becomes a permanent part of the structure until it is stripped away after the curing process. When you consider the other options, they have characteristics distinct from dead loads. Workers and equipment are considered live loads, as they can vary significantly during the use of the structure. While stored materials could potentially be considered as part of a live load, depending on whether they are permanent or temporary, they also can fluctuate in quantity and location, reinforcing them as a live load category. Thus, formwork is the option that definitively aligns with the definition of a dead load.

10. Which of the following is a type of deep foundation?

- A. crawl space**
- B. strip footing**
- C. mat footing**
- D. caisson**

Deep foundations are structural elements that transfer building loads down to deeper soil layers that are more capable of bearing these loads. They are typically used in situations where surface soils do not have adequate strength or stability. A caisson is a specific type of deep foundation that is constructed by drilling a shaft into the ground and filling it with concrete to support heavy loads, making it suitable for use in various soil conditions and depths. The other options listed—crawl spaces, strip footings, and mat footings—are generally associated with shallow foundations. A crawl space typically involves a raised floor structure above the ground that allows for ventilation but does not extend into deeper ground layers like a caisson does. Strip footings are continuous strips of concrete that support walls and are placed at shallow depths. Mat footings cover a large area and provide support to buildings by distributing load over a wide base, but they also do not reach significant depths like caissons. Thus, caisson stands out as the correct answer since it is explicitly designed for deeper applications.