

Project Delivery Practice Test (Sample)

Study Guide



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Questions

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- 1. Which method of project delivery utilizes fixed-price agreements?**
 - A. Cost-plus contracts**
 - B. Design-Bid-Build**
 - C. Design-Build**
 - D. All of the above**
- 2. What does "Fast-Track" refer to in project delivery?**
 - A. Sequential project phases**
 - B. Overlapping of multiple project phases**
 - C. Cost-saving measures in scheduling**
 - D. Standard project timelines**
- 3. Which of the following delivery methods provides the contractor with the most direct control over the project?**
 - A. Design-Bid-Build**
 - B. Construction Manager at Risk**
 - C. Design-Build**
 - D. Design-Sequenced Delivery**
- 4. How is commissioning specifically beneficial in project delivery?**
 - A. It reduces project costs**
 - B. It validates design intent**
 - C. It speeds up construction time**
 - D. It minimizes change orders**
- 5. In the design-bid-build method, who assumes risk for defects in the contract documents?**
 - A. Owner**
 - B. Architect**
 - C. Contractor**
 - D. Project Manager**

- 6. What is the primary goal of a value engineering system?**
- A. To minimize project costs**
 - B. To improve value and optimize facility, product, or process**
 - C. To expedite project delivery**
 - D. To ensure regulatory compliance**
- 7. In project delivery, what does "scope" refer to?**
- A. The financial budget of the project**
 - B. The defined work required to complete the project**
 - C. The locations of the construction**
 - D. The timeline for project delivery**
- 8. What defines the role of the owner in the Design-Build delivery method?**
- A. The owner manages all aspects of design**
 - B. The owner collaborates with contractors**
 - C. The design-builder takes responsibility for design**
 - D. The owner is solely responsible for finances**
- 9. Can it be stated that CM @ Risk does not use Low Bid or Best Value: Total Cost as procurement options?**
- A. True**
 - B. False**
 - C. Only in public projects**
 - D. Only in private projects**
- 10. Which of the following are the four main delivery methods?**
- A. Design-Bid-Build, CM @ Risk, Design-Build, IPD**
 - B. Design-Build, Fast Track, Design-Bid-Build, Joint Venture**
 - C. Negotiated Contract, CM @ Risk, Design-Bid-Build, Lease**
 - D. CM @ Risk, Design-Bid-Build, Joint Venture, IPD**

Answers

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

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Explanations

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1. Which method of project delivery utilizes fixed-price agreements?

- A. Cost-plus contracts**
- B. Design-Bid-Build**
- C. Design-Build**
- D. All of the above**

In project delivery methods, fixed-price agreements are typically found in the Design-Bid-Build approach. This method involves three distinct phases—design, bidding, and construction. Once the design phase is complete and the project is bid out to contractors, the selected contractor agrees to a fixed price for completing the construction according to the specified design. The fixed-price agreement is beneficial because it promotes cost certainty for the client, as they know exactly what the construction will cost ahead of time. This contrasts with methods like cost-plus contracts, where the contractor is paid for their actual costs plus a fee, and thus does not operate under a fixed price. In Design-Build, there is also a single contract covering both design and construction, which may or may not involve fixed pricing, depending on the particular arrangements made. Given that Design-Bid-Build is specifically focused on fixed-price agreements post-design phase and competitive bidding process, it is the correct choice in this context.

2. What does "Fast-Track" refer to in project delivery?

- A. Sequential project phases**
- B. Overlapping of multiple project phases**
- C. Cost-saving measures in scheduling**
- D. Standard project timelines**

"Fast-Track" in project delivery refers specifically to the overlapping of multiple project phases to accelerate the overall timeline of a project. This approach allows for different stages of the project to begin before previous phases are fully completed, which helps to expedite the completion of the entire project. In many cases, fast-tracking can lead to time savings, as activities that are dependent on one another can be executed simultaneously rather than waiting for one phase to finish before starting the next. This method requires careful planning and management to ensure that overlapping tasks do not lead to conflicts or quality issues. While the other options address elements related to project phases or scheduling, none captures the essence of fast-tracking, which is fundamentally about concurrency in the execution of project components rather than the traditional sequential or standardized approaches.

3. Which of the following delivery methods provides the contractor with the most direct control over the project?

- A. Design-Bid-Build**
- B. Construction Manager at Risk**
- C. Design-Build**
- D. Design-Sequenced Delivery**

The design-build delivery method provides the contractor with the most direct control over the project because it combines both the design and construction phases into a single contract. This integration ensures that the contractor is involved early in the design process, allowing for better coordination between the design and construction teams. This close collaboration facilitates streamlined decision-making and enables the contractor to implement their expertise in construction efficiently from the outset, ultimately leading to enhanced project delivery. In design-build, the contractor not only oversees construction but also influences design decisions based on constructability and cost-effectiveness, which can lead to innovations and better overall project outcomes. This contrasts significantly with other methods, where design and construction are separated, often resulting in more layers of communication and potential delays in decision-making.

4. How is commissioning specifically beneficial in project delivery?

- A. It reduces project costs**
- B. It validates design intent**
- C. It speeds up construction time**
- D. It minimizes change orders**

Commissioning is fundamentally beneficial in project delivery because it focuses on validating design intent to ensure that the constructed project operates according to the specifications and requirements outlined during the design phase. This process involves a comprehensive review and testing of systems, equipment, and controls to confirm that they align with the original project goals and client expectations. By guaranteeing that the design is implemented correctly and functions as intended, commissioning helps to achieve the desired performance and efficiency of the completed project. The other options, while important aspects of project delivery, do not capture the essential role of commissioning in validating whether the project meets its intended design. Reducing costs and minimizing change orders are outcomes that can emerge indirectly from effective commissioning, but they are not the primary purpose. Similarly, while commissioning can help prevent issues that might delay construction time, its main focus is on ensuring that all systems work harmoniously as designed, rather than rushing through the construction process.

5. In the design-bid-build method, who assumes risk for defects in the contract documents?

- A. Owner**
- B. Architect**
- C. Contractor**
- D. Project Manager**

In the design-bid-build method, the owner assumes the risk for defects in the contract documents because they are responsible for providing the complete and accurate designs to the contractors. The process is set up such that the owner engages an architect or designer to create the project's plans and specifications. Once these documents are completed and finalized, they are then shared in a bid process that allows contractors to submit their proposals based on the provided documents. Since the owner is responsible for the initial creation and accuracy of these documents, they bear the risk if defects or inaccuracies are later discovered. This could lead to additional costs or delays for the project. In contrast, the architect is responsible for the design, the contractor is responsible for construction using the provided documents, and the project manager oversees the process; however, none of these parties assume liability for the fundamental correctness of the design in the design-bid-build model—this ultimately rests with the owner.

6. What is the primary goal of a value engineering system?

- A. To minimize project costs**
- B. To improve value and optimize facility, product, or process**
- C. To expedite project delivery**
- D. To ensure regulatory compliance**

The primary goal of a value engineering system is to improve value and optimize a facility, product, or process. This approach focuses on enhancing functionality while minimizing costs. By systematically analyzing the functions of a project, teams can identify ways to reduce unnecessary expenses without sacrificing quality or performance. The emphasis is on improving value for stakeholders—this can mean not only reducing costs but also improving the durability, usability, or overall satisfaction with the end product. Value engineering seeks to achieve a balance where the maximum value is delivered for the investment made, ultimately leading to more effective resource utilization and better project outcomes. This is more holistic than simply minimizing costs, which can sometimes lead to compromises in quality or functionality. The inclusion of various perspectives in the value engineering process ensures that the end results are better aligned with user needs and project objectives.

7. In project delivery, what does "scope" refer to?

- A. The financial budget of the project**
- B. The defined work required to complete the project**
- C. The locations of the construction**
- D. The timeline for project delivery**

In project delivery, "scope" specifically refers to the defined work required to complete the project. This includes all the tasks, deliverables, features, and functions that are necessary to fulfill the project objectives. Clearly defining the scope is crucial because it sets boundaries for what is included in the project, helping to avoid scope creep, which is the addition of unplanned work or features. A well-defined scope provides a clear understanding of what is to be delivered, ensuring that all stakeholders have a common understanding of the project's goals. This understanding underpins effective planning, resource allocation, and management throughout the project lifecycle. The other options address related concepts but don't define scope directly. The financial budget pertains to the costs associated with the project, the locations refer to where the work is to be carried out, and the timeline indicates when the project activities are scheduled to occur. While these elements are important for overall project management, they do not encapsulate the idea of scope, which is centered around the specific work that needs to be completed.

8. What defines the role of the owner in the Design-Build delivery method?

- A. The owner manages all aspects of design**
- B. The owner collaborates with contractors**
- C. The design-builder takes responsibility for design**
- D. The owner is solely responsible for finances**

In the Design-Build delivery method, the design-builder is a single entity responsible for both the design and construction of a project. This approach streamlines the project delivery process and promotes collaboration between the design and construction teams. By having a single point of accountability, the design-builder can effectively manage both the design and construction phases, ensuring that the vision of the owner is realized efficiently and cohesively. This model allows the owner to minimize their involvement in the technical details of the design, as the responsibility for both aspects falls on the design-builder. The owner primarily focuses on defining the project requirements, establishing budgets, and setting timelines but delegates the tasks of design and construction to the design-builder, who brings in the necessary expertise. While collaboration between the owner and contractors is certainly important—especially in discussing project goals and progress—the key feature in the Design-Build method is that the design-builder assumes full responsibility for delivering the complete project, making it distinct from other delivery methods where owners may manage aspects of design or construction themselves.

9. Can it be stated that CM @ Risk does not use Low Bid or Best Value: Total Cost as procurement options?

A. True

B. False

C. Only in public projects

D. Only in private projects

In the context of Construction Management at Risk (CM @ Risk), the procurement approach focuses on selecting a construction manager who assumes the risk of delivering the project within a guaranteed maximum price. This method emphasizes qualifications and experience rather than solely cost-based metrics like Low Bid or Best Value: Total Cost. The rationale for this is that CM @ Risk aims to integrate the construction manager early in the project to optimize design, control costs, and mitigate risks effectively throughout the project lifecycle. This collaborative approach fosters a strong partnership between stakeholders, leading to better decision-making and innovative solutions. Thus, it inherently excludes traditional procurement methods that prioritize lowest bid scenarios, which may not consider the overall value and quality of the work. In conclusion, stating that CM @ Risk does not use Low Bid or Best Value: Total Cost as procurement options accurately reflects the essence of this delivery method, which prioritizes risk management and value over simply minimizing initial project costs.

10. Which of the following are the four main delivery methods?

A. Design-Bid-Build, CM @ Risk, Design-Build, IPD

B. Design-Build, Fast Track, Design-Bid-Build, Joint Venture

C. Negotiated Contract, CM @ Risk, Design-Bid-Build, Lease

D. CM @ Risk, Design-Bid-Build, Joint Venture, IPD

The selection of the four main delivery methods as Design-Bid-Build, CM @ Risk, Design-Build, and IPD accurately reflects the predominant strategies used in construction project delivery. Design-Bid-Build is a traditional delivery method where the project is designed first, then bids are solicited from contractors to execute the construction based on those designs. This method is characterized by a clear separation of responsibilities between designers and contractors. CM @ Risk, or Construction Management at Risk, introduces the construction manager early in the project to provide advice on cost and scheduling during the design phase while also taking on the risk of delivering the project within a guaranteed maximum price once construction begins. This collaborative approach offers greater flexibility and can often lead to enhanced project efficiency. Design-Build is an integrated approach where design and construction services are contracted together, allowing for greater collaboration between the project team members. This can result in faster project delivery and cost savings since it streamlines communication and decision-making processes. Lastly, Integrated Project Delivery (IPD) is a method that brings together all key stakeholders early in the project to share risks and rewards, ensuring that everyone has a vested interest in the project's success. This approach fosters cooperation and innovation, which can lead to improved project outcomes.