

Project-Planning-Design Test Preparation & Project-Planning-Design Exam Questions & Project-Planning-Design Test Prep



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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Codes & Regulations: This section of the exam measures the skills of project architects and focuses on applying zoning laws, environmental rules, and building codes during the planning stage. Candidates are tested on how to integrate multiple regulatory requirements into a project's design effectively.
Topic 2	<ul style="list-style-type: none"> Project Integration of Program & Systems: This section of the exam measures skills of project architects and focuses on integrating decisions about environmental conditions, codes, and building systems into one cohesive project design. It highlights how to configure the building and incorporate both program requirements and contextual conditions in a unified design approach.
Topic 3	<ul style="list-style-type: none"> Building Systems, Materials, & Assemblies: This section of the exam measures skills of architectural designers and covers the understanding of building systems such as mechanical, electrical, and plumbing, along with structural and specialty systems. It also involves selecting appropriate materials and assemblies to align with program needs, budgets, and regulations.
Topic 4	<ul style="list-style-type: none"> Environmental Conditions & Context: This section of the exam measures skills of architectural designers and covers how to use site analysis information to determine building placement and environmental planning decisions. It emphasizes applying sustainable principles and considering the neighborhood context to guide project design.
Topic 5	<ul style="list-style-type: none"> Project Costs & Budgeting: This section of the exam measures skills of architectural designers and assesses the ability to evaluate design alternatives based on program goals, perform cost evaluations, and manage cost considerations throughout the design process.

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q44-Q49):

NEW QUESTION # 44

Click in the structural bay of the elevation that is the most appropriate location to install steel rod cross bracing.

Answer:

Explanation:

□ Explanation:

the most appropriate location to install steel rod cross bracing is in the fourth structural bay, which corresponds to the bay on the far right side of the elevation.

- * Steel rod cross bracing is typically installed in bays that are fully open or contain large door openings and require lateral support to resist racking forces (lateral loads such as wind or seismic forces).
- * The fourth bay shows a large door opening without any visible solid wall or shear wall elements, making it structurally weaker against lateral loads and thus the most suitable for cross bracing.
- * The first bay, with a smaller door or solid wall, and the other bays with more enclosed or glazed openings may have other structural elements providing lateral resistance.
- * Installing the bracing in the fourth bay enhances structural stability and prevents lateral displacement or deformation.

NEW QUESTION # 45

An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.

The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.

Considerations for the renovation include:

- * The relocated front entrance must be easily recognizable, highly visible, and secure.
- * Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.
- * Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.

After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.

Building information:

- * Construction Type is II-B.

The following resources are available for your reference:

- * Existing Plans, including site and floor plans
- * Proposed Plans, including site and floor plans
- * Cost Analysis
- * Zoning Ordinance Excerpts, for off-street parking requirements
- * IBC Excerpts, showing relevant code sections

* ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design

- A. 3rd Grade Classrooms
- B. 1st Grade Classrooms
- C. 5th Grade Classrooms
- **D. Kindergarten Classrooms**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to IBC and egress requirements, kindergarten classrooms often have more stringent egress requirements than higher grades due to the younger occupant population, who require faster and easier exit options in emergencies. This often translates into requirements for additional or wider exit doors to ensure safe, quick evacuation.

Older grades (1st, 3rd, 5th) typically have less restrictive egress door requirements.

Code mandates consider occupant age and ability to evacuate efficiently.

Thus, kindergarten classrooms should be flagged for additional doors if not already provided.

References:

IBC Chapter 10 - Means of Egress, Occupant Load and Egress Requirements ADA Standards for Accessible Design ARE 5.0

PPD - Codes and Regulations

NEW QUESTION # 46

An architect is working with a developer to determine which of three available sites should be the preferred location for a new office building that will primarily utilize passive energy systems. All three sites are located in a cold, northern climate with winter winds predominantly from the north and west.

Site descriptions:

Site A: Located at the top of a hill; small vegetation and brush; expansive views in all directions.

Site B: Located along a river; heavily wooded area on the north side; coniferous trees shading the southern face of the building.

Site C: Located on a rocky, south-facing slope; wooded on the eastern edge; native grasses on southern boundary.

Primary goal: maximize solar energy potential while maintaining winter wind protection.

Which site should be selected?

- A. Site B
- B. Site A
- **C. Site C**

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Site C offers a south-facing slope, which maximizes solar exposure-crucial in cold climates for passive solar heating. The wooded eastern edge provides wind protection from cold morning winds, and native grasses on the south reduce erosion while minimally shading.

Site A, on a hilltop with sparse vegetation, lacks wind protection.

Site B has coniferous trees shading the southern face, reducing solar gain, which is counterproductive for passive solar design.

Thus, Site C optimizes both solar potential and wind protection.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Passive Solar Design The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Site Planning

NEW QUESTION # 47

A divisional cost breakdown method of cost estimating has which of the following advantages over a cost per square foot method of cost estimating?

- **A. It is useful throughout design and construction of the project.**
- B. It provides a simple method to calculate costs.
- C. It provides a quick reference or check at the early design stages.
- D. It is useful for generic buildings.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The divisional cost breakdown method organizes project costs by divisions (e.g., site work, concrete, finishes), which allows for detailed tracking and estimation of costs throughout design and construction phases. This method is more comprehensive and flexible compared to the simple cost per square foot method, which is primarily useful early in design for rough order-of-magnitude estimates.

Therefore, the divisional method's key advantage is its usefulness throughout the project lifecycle for cost management, enabling more accurate updates and adjustments as design progresses.

References:

ARE 5.0 PPD - Project Costs and Budgeting

The Architect's Handbook of Professional Practice, 15th Edition - Cost Estimating and Control

NEW QUESTION # 48

The testing center on the second floor requires a private restroom for testing candidates to use. The architect needs to locate a single toilet restroom in the area that will have the least impact on the existing programming.

Click on the area in the plan where the restroom should be located.

Answer:

Explanation:

□ Explanation:

- * Locating the restroom in the existing small office space minimizes disruption to testing center programming and circulation.
- * This space is adjacent to the testing area, providing convenient access for testing candidates while maintaining privacy.
- * Repurposing an existing small room avoids reducing seating capacity or requiring major reconfiguration of the larger testing or hallway areas.
- * The location is near existing plumbing walls (bathrooms and mechanical rooms in the lower part of the plan), which reduces construction complexity and cost.

This approach aligns with NCARB ARE 5.0 Project Planning & Design content emphasizing efficient space utilization, minimal disruption, and adjacency for functional support spaces in program layouts.

NEW QUESTION # 49

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