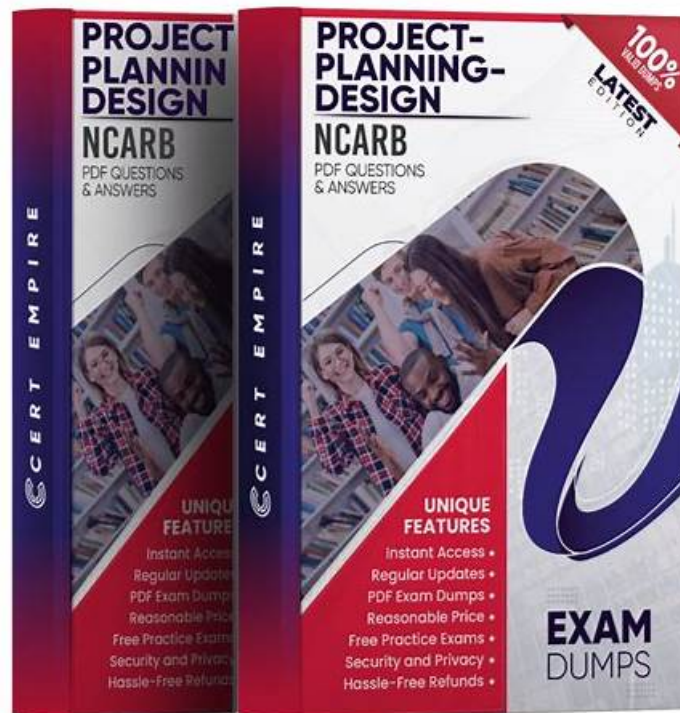


2025 Trustable NCARB Project-Planning-Design Exam Questions Answers



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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	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 2	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	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	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 5	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 (Q82-Q87):

NEW QUESTION # 82

For a government-owned project, architects can reduce consumption and waste by including which of the following requirements in their design and specifications? Check the four that apply.

- A. Use of low flow fixtures
- B. Use of local materials
- C. Reuse of existing structures
- D. Construction waste recycling
- E. Means of construction
- F. Limit bidding to local contractors

Answer: A,B,C,D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To reduce consumption and waste, especially for government projects emphasizing sustainability:

Construction waste recycling (A): Diverts materials from landfill.

Use of local materials (B): Reduces transportation energy and emissions.

Reuse of existing structures (D): Minimizes new material use and demolition waste.

Use of low flow fixtures (F): Conserves water and reduces operational consumption.

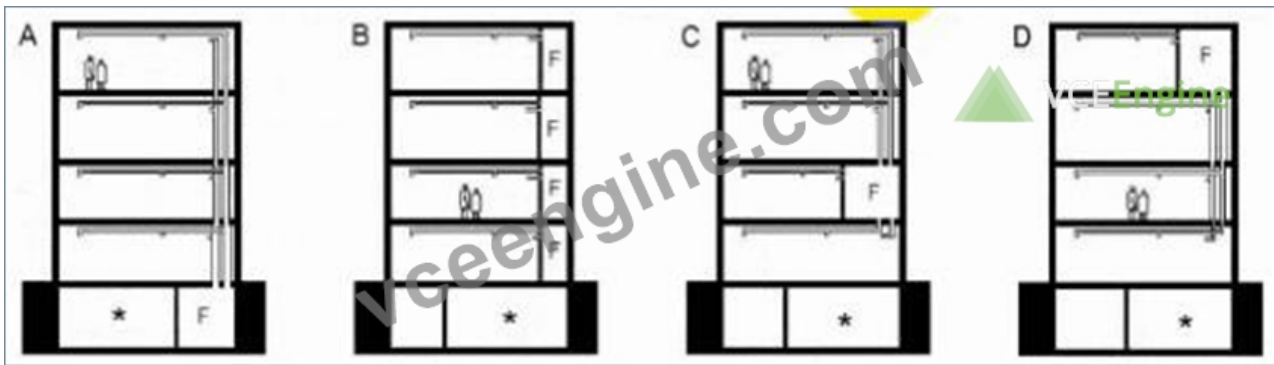
Means of construction (C) and limiting bidding (E) affect cost and process but less directly impact waste reduction.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Sustainable Design

The Architect's Handbook of Professional Practice, 15th Edition - Green Building

NEW QUESTION # 83



Refer to the exhibit (four building sections with fan locations (F) and boiler/chiller equipment (*)).

Which of the fan locations (F) indicated for a four-story office building would allow the most efficient provision for weekend cooling?

- A. A
- B. D
- C. C
- D. B

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For efficient weekend cooling in a multi-story office building, placing fan equipment centrally between the conditioned spaces reduces duct lengths, allows better zoning, and minimizes energy use.

In option C, fans are located mid-building between office floors and other uses, allowing for more efficient distribution and individual zone control.

Other options (A, B, D) place fans either all at one end or stacked at one side, increasing duct runs and reducing flexibility in zoning, which can lead to inefficiency during reduced loads like weekends.

NCARB PPD guidelines emphasize mechanical system design that optimizes equipment placement to balance energy efficiency, occupant comfort, and system flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC System Design

The Architect's Handbook of Professional Practice, 15th Edition - Mechanical Equipment Layout

NEW QUESTION # 84

When laying out access routes and parking lots for an office building, which of the following strategies can increase the security of the site?

- A. Provide an equal amount of parking spaces on each side of the building
- B. Integrate shipping and receiving in one location
- C. Provide public access to all parking areas
- D. Designate parking areas based on defined user groups

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Designating parking areas for different user groups (e.g., employees, visitors, service vehicles) helps control access, monitor activity, and reduce unauthorized entry, improving site security.

Equal parking on all sides (A) does not affect security.

Integrating shipping and receiving (C) may improve logistics but not necessarily security.

Providing public access to all parking (D) can increase security risks.

NCARB PPD guidelines emphasize zoning and controlled access as key security strategies.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Site Security

The Architect's Handbook of Professional Practice, 15th Edition - Crime Prevention Through Environmental Design (CPTED)

NEW QUESTION # 85

A multistory warehouse is to be converted into a high-tech office building. The owners propose a variety of services and flexibility to tenants, including cable/internet, fiber optic communications, dish/satellite, and security systems.

In order to accommodate this broad array of electronic and communications services, the architect should recommend which of the following electrical and communications distribution systems?

- A. Poke-through system
- B. Cellular deck system
- C. Flat cable wiring system
- **D. Raised access floor system**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A raised access floor system provides a flexible, accessible space beneath the finished floor for routing power, data, telecommunications, and security cables. It facilitates easy reconfiguration and tenant fit-out modifications without major disruption.

Poke-through systems (A) provide limited point access for power/data and are less flexible for extensive rewiring.

Cellular deck systems (B) are structural components, not distribution systems.

Flat cable wiring (D) is a wiring method but does not provide the physical infrastructure for flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical and Communications Systems The Architect's Handbook of Professional Practice, 15th Edition - Data and Power Distribution

NEW QUESTION # 86

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

Answer: B

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 # 87

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