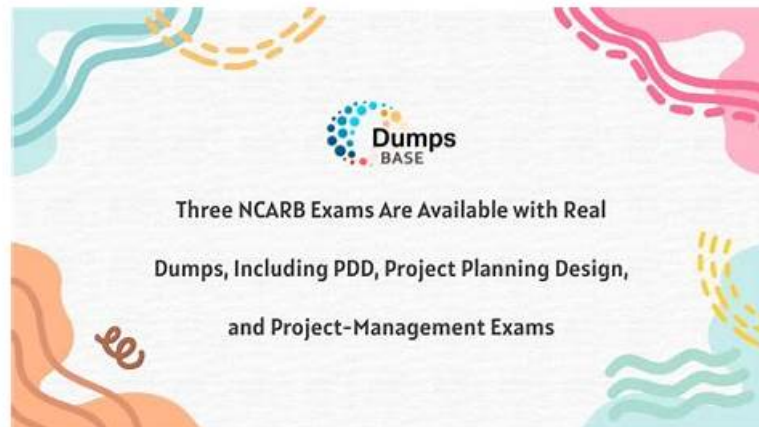


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Pass Guaranteed Quiz 2026 NCARB First-grade Project-Planning-Design: ARE 5.0 Project Planning & Design (PPD) Real Dump

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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.

Topic 3	<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 4	<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 5	<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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q35-Q40):

NEW QUESTION # 35

Which of the following is considered when using natural light as the primary source of ambient light to improve building quality and reduce energy costs?

- A. Clear glazing window wall system
- B. Single switched lighting controls
- C. Exterior shading devices
- D. Operable windows located on opposite walls

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Using natural light as a primary source of ambient lighting is a sustainable strategy to improve indoor environmental quality and reduce energy consumption. However, careful control of daylighting is essential to avoid glare and overheating.

Exterior shading devices (such as louvers, overhangs, and fins) are critical in managing solar heat gain and glare by controlling direct sunlight before it enters the building envelope. They help maintain visual comfort and reduce cooling loads, directly impacting energy costs and occupant comfort.

Operable windows on opposite walls facilitate cross ventilation, which is beneficial for natural ventilation but does not directly control daylighting quality or energy use related to lighting.

Clear glazing window wall systems maximize daylight penetration but can increase solar heat gain if not properly shaded, thus increasing cooling loads.

Single switched lighting controls are a basic electrical feature and do not influence daylighting quality or energy efficiency related to natural light.

NCARB's PPD guidelines emphasize integrating exterior shading as a passive design strategy to optimize daylight use and reduce reliance on mechanical cooling and artificial lighting, improving building performance sustainably.

References:

ARE 5.0 Project Planning & Design - Environmental Conditions and Context The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Design and Daylighting NCARB Guidelines on Daylighting and Energy Efficiency

NEW QUESTION # 36

Refer to the exhibit (building subjected to wind with force diagrams A, B, C, D).

Which of the force diagrams shown correctly represents the resultant wind forces causing an overturning effect on the building and the forces that resist this overturning effect? (Direction and point of application of forces are to be considered; magnitude of forces is not.)

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

Answer: A

Explanation:

The diagram shows a building exposed to wind loading, which causes lateral pressure (P_w) on the windward wall and suction (negative pressure) on the leeward wall, generating an overturning moment about the base of the building.

* Diagram A correctly shows:

* The wind pressure (P_w) pushing on the windward wall, producing a lateral force applied at approximately two-thirds the building height (h), which tends to overturn the building.

* The wind suction (P_l) pulling on the leeward wall, acting in the opposite direction but also contributing to the overturning moment.

* The reaction forces at the base resist this overturning: an uplift force (negative vertical reaction) on the windward side and a downward force on the leeward side, counterbalancing the moment.

* Diagrams B, C, and D incorrectly orient or place the forces or reactions, failing to accurately depict the overturning moment and the corresponding resisting forces.

NCARB ARE 5.0 PPD guidelines on environmental conditions emphasize understanding wind load effects, including lateral pressures, suction, overturning moments, and foundation reactions essential for structural design and safety.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Wind Loads and Structural Response

ASCE 7-16: Minimum Design Loads for Buildings and Other Structures (Wind Load Provisions) The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations

NEW QUESTION # 37

An architect has just received client approval of the Schematic Design documents for a three-story, outpatient medical clinic. The clinic is located within a mixed-use development governed by a City-approved Planned Development (PD) document. The medical clinic design utilizes standardized departmental layouts and includes outpatient clinics, as well as treatment spaces, administrative spaces and public/lobby spaces.

The site needs to accommodate four different vehicular traffic flows: patient traffic, staff traffic, service and delivery traffic, and emergency services traffic. In addition, a pedestrian plaza must connect to the mixed-use development sidewalks. The plaza must provide space for bicycle parking and will serve as the future bus stop.

The site design addresses several challenges related to building orientation. The southeast facade, with excellent visibility from the highway, is the location of all service equipment. The building entrance faces northwest, convenient to the parking but not visible from the highway.

The client believes future patient volumes will outgrow the clinic. The PD document allows for a planned Phase 2 development on the adjacent vacant site to the southwest. Phase 2 would include a second building (2 story, 80,000 BGSF) and/or a parking deck.

Other considerations for the project include:

* Protected tree requirements are defined in the PD document.

* Easy pedestrian access must be provided from Sycamore Boulevard.

* All required parking for the clinic must be accommodated on site.

* Programmed area includes 109,450 Departmental Gross Square Feet (DGSF) / 130,184 Building Gross Square Feet (BGSF).

* Exterior material percentages are dictated by the PD document and shall not exceed specific percentages for Primary and Secondary Finishes.

* All service equipment needs to be screened; see PD document for restrictions.

* Signage opportunities are important to the client.

* Acoustical privacy is a concern of the healthcare system.

The following resources are available for your reference:

* Drawings, including a perspective, plans, and exterior elevations

* Building Program, including client's departmental program and detailed program for Treatment 01 (Infusion)

* Exterior Material Cost Comparisons

* Planned Development Document

* IBC Excerpts, showing relevant code sections

* ADA Excerpts, showing relevant sections from the ADA Standards for Accessible Design The client decides to build-out and lease the second floor shell space as a lunch cafe with cooking classes as an additional function in the evening.

- A. Required parking will be determined based on the occupancy of the cooking classroom area.
- B. Required parking will be determined based on occupancy of the lunch cafe area.
- C. Required parking will be determined based on the building area.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Parking requirements in mixed-use developments governed by Planned Development (PD) documents are typically calculated based on the total building area or gross floor area, especially when multiple uses occur within the same building or floor.

This method simplifies administration and ensures adequate parking for all uses.

Determining parking based only on specific uses such as café or cooking classroom (A, B) can lead to under or overestimation, especially with shared parking scenarios.

Thus, building area-based parking calculation is the most reliable and compliant approach.

References:

Planned Development Document

Local Zoning Ordinance Excerpts

ARE 5.0 PPD - Codes and Regulations, Parking Requirements

NEW QUESTION # 38

When designing a three-story wood-frame home located in a high wind region, the addition of a green roof with a two-foot soil bed would do which one of the following?

- A. Increase the structure's resistance to racking
- **B. Require additional tie-downs**
- C. Increase the structure's resistance to overturning

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Adding a green roof with a two-foot soil bed significantly increases the dead load on the roof and affects the uplift forces caused by high winds. This heavier roof mass necessitates additional structural tie-downs or anchorage to resist wind uplift and prevent overturning or structural failure.

The added weight does not inherently increase resistance to overturning (A) or racking (C); rather, it increases loads that require structural reinforcement.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Structural Loads and Wind Design The Architect's Handbook of Professional Practice, 15th Edition - Wind-Resistant Design

NEW QUESTION # 39

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 An elementary school library has an occupancy load of 150.

What is the minimum clear opening width required?

- A. 30"
- **B. 36"**
- C. 32"

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to ADA Standards and IBC egress requirements for an occupancy load of 150, the minimum clear opening width for doors must be at least 36 inches to accommodate the expected occupant flow and provide accessible egress.

30" or 32" openings are too narrow for this occupancy load.

Ensuring the minimum door width meets code is essential for safe and accessible design.

References:

ADA Standards for Accessible Design

IBC Chapter 10 - Means of Egress

ARE 5.0 PPD - Codes and Regulations

NEW QUESTION # 40

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