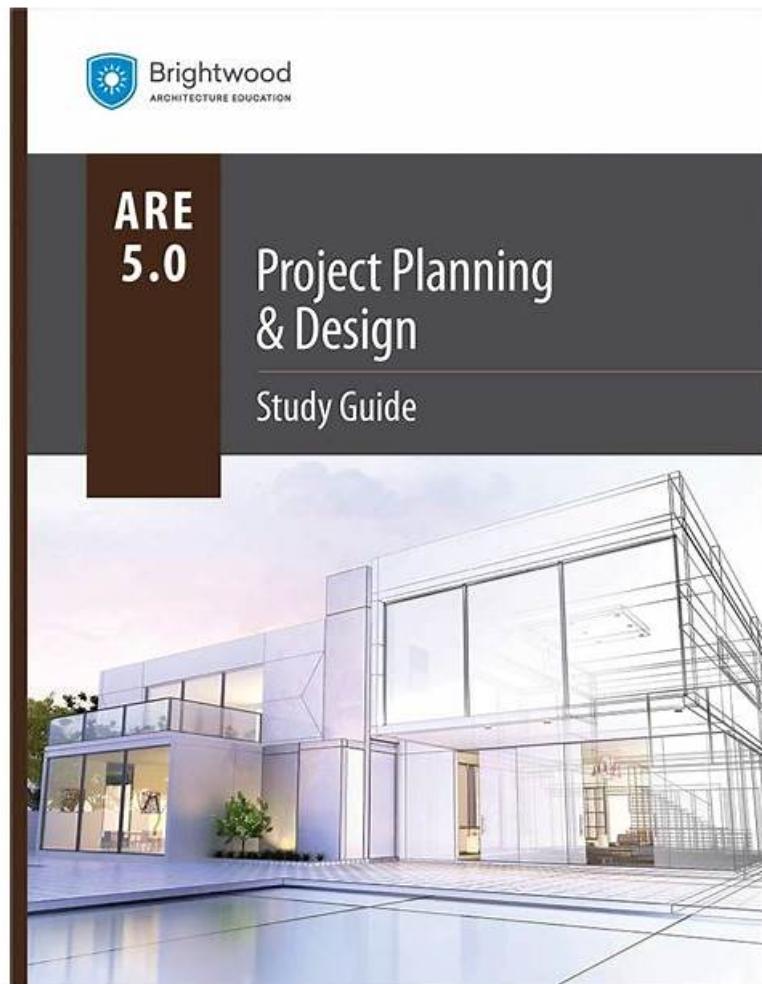


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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> 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 5	<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.

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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q72-Q77):

NEW QUESTION # 72

If evaluating on a life-cycle basis, which of the following effects is the major reason for using native or adapted plantings on-site?

- A. Reduction in root adaptation time period
- B. Reduction in irrigation water and fertilizer**
- C. Reduction in transplantation costs

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Native or adapted plantings are used primarily to reduce long-term environmental and maintenance costs in sustainable site design. The most significant life-cycle benefit is the reduction in irrigation water and fertilizer requirements because native plants are naturally suited to local climate and soil conditions. They typically require less supplemental watering, fertilizer, and pesticide use, which reduces resource consumption and maintenance efforts over the plantings' lifespan.

Option B (Reduction in root adaptation time period) is a minor factor relative to water and nutrient needs.

Option C (Reduction in transplantation costs) relates more to initial installation cost rather than long-term life- cycle impacts.

Using native or adapted plant species supports sustainable landscape design principles emphasized in the NCARB PPD content, contributing to water conservation, reduced chemical use, and improved ecological performance.

References:

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

NEW QUESTION # 73

A proposed six-story commercial building will have a basement level with finished floor 20'-0" below grade.

The building site is located less than 1 mile from the coastline. A site survey indicates that the average site elevation is 5'-0" above sea level.

Based on the site-specific conditions, which four issues should the architect address in the design? Check the four that apply.

- A. Spread footings
- B. Potential corrosion of exterior finishes due to salt in water vapor
- C. Hydrostatic pressure on basement walls
- D. Water table height
- E. Dewatering during construction
- F. Radiant flooring in the basement slab

Answer: B,C,D,E

Explanation:

Comprehensive and Detailed Explanation:

Dewatering during construction (A): The deep excavation (20' below grade) near sea level likely intersects the water table, necessitating dewatering to keep the site dry during construction.

Water table height (B): Proximity to the coast raises the water table, which affects foundation and waterproofing design.

Potential corrosion due to salt (D): Salt in water vapor and marine air can corrode metal exterior finishes and reinforcements; materials and coatings must be selected accordingly.

Hydrostatic pressure on basement walls (E): High water tables create significant lateral water pressure requiring robust waterproofing and structural resistance.

Spread footings (C) may or may not be suitable depending on soil but are not specific to coastal or basement conditions.

Radiant flooring (F) is unrelated to site conditions and more a mechanical choice.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Site and Foundation Design The Architect's Handbook of Professional Practice, 15th Edition - Coastal and Marine Environment Design

NEW QUESTION # 74

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 developer decides that the 4-inch terra cotta exterior veneer is too expensive, and wants to replace the terra cotta with an alternative finish in its entirety.

Which of the following alternative materials should the architect suggest to reduce cost and meet the Planned Development Document requirements? Check the two that apply.

- A. Earth Tone EIFS
- B. Low Priced Stone

- C. Metal Panels (Fluoropolymer finish)
- D. Artisan Brick
- E. Cultured Stone
- **F. Standard Brick**

Answer: A,F

Explanation:

To reduce costs while complying with Planned Development (PD) document restrictions on exterior finishes, the architect should select materials that are less expensive than terra cotta yet meet aesthetic and code requirements:

Standard brick (C) is a cost-effective, durable alternative with broad acceptance.

Earth tone EIFS (E) (Exterior Insulation and Finish System) offers an economical and versatile finish that can replicate various textures and colors while reducing costs.

Low priced stone (A) and cultured stone (B) may still be costly or not permitted per PD document.

Artisan brick (D) and metal panels (F) may exceed allowed percentages or not fit aesthetic guidelines.

References:

Planned Development Document

ARE 5.0 PPD - Project Integration of Program and Systems

The Architect's Handbook of Professional Practice, 15th Edition - Exterior Finishes

NEW QUESTION # 75

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

Which of the following is the maximum height the platform can be above the gymnasium floor per the proposed design?

- A. 2'-6"
- **B. 1'-6"**
- C. 1'-9"

Answer: B

Explanation:

Per building and accessibility codes (such as ADA and IBC), raised platforms or stages in assembly areas like gymnasiums are limited in height to ensure safe access and egress. A maximum height of 1 foot 6 inches (18 inches) without requiring additional stairs or ramps is common to allow easy transition and avoid additional egress requirements.

Heights above 18 inches typically require stairs or ramps per ADA.

1'-9" or 2'-6" exceed these limits and would trigger additional code requirements.

References:

NEW QUESTION # 76

An architect's client is focused on lighting energy savings and daylighting design in a new 3,000 ft² commercial building addition to expand showroom and office square footage. The client requests reasonable daylighting measures in the design. What should the architect recommend to the client?

- A. Provide for daylight-responsive control of electric lighting
- B. Limit ample access to daylight to the interior spaces only
- C. Increase sunlight in the vicinity of critical visual tasks
- D. Isolate electric lighting for daylight-responsive control to within a single zone

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Daylight-responsive control systems automatically adjust electric lighting based on available natural light, reducing energy use and improving occupant comfort.

Isolating lighting to a single zone (A) limits effectiveness.

Limiting daylight access (C) reduces benefits.

Increasing sunlight near tasks (D) can cause glare.

Thus, providing daylight-responsive electric lighting control is recommended.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Daylighting

The Architect's Handbook of Professional Practice, 15th Edition - Lighting Design

NEW QUESTION # 77

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