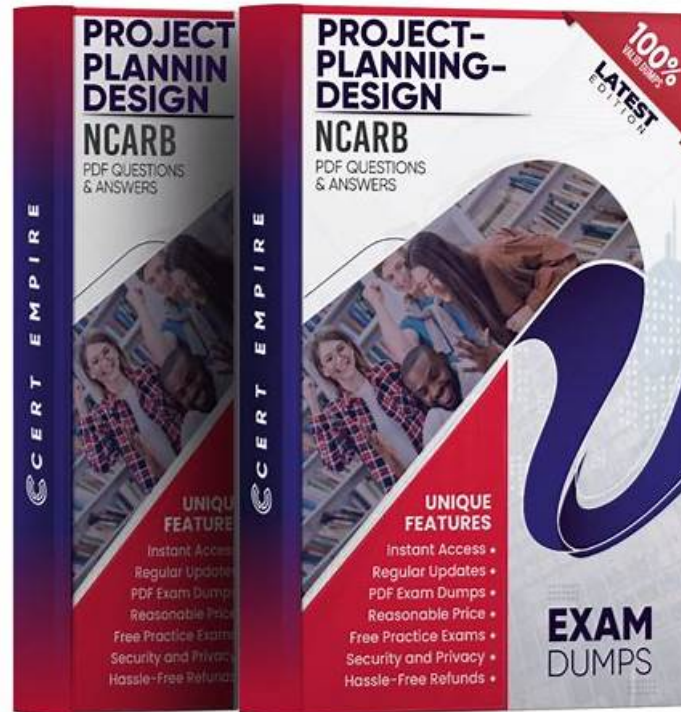


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## NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Project Integration of Program &amp; 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• Environmental Conditions &amp; 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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>Codes &amp; 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Project Costs &amp; 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Building Systems, Materials, &amp; 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.</li> </ul>

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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q59-Q64):

### NEW QUESTION # 59

Refer to the exhibit (site designs A through D with tree and shrub placement and prevailing northwest winds indicated). Which of the following site designs would best protect the structure from prevailing northwest winds?

- A. Site Design A
- B. Site Design C
- C. Site Design D
- D. Site Design B

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To protect a structure from prevailing winds, dense windbreaks such as evergreen trees should be planted upwind (northwest side) to reduce wind speed and buffer the building.

Site Design B places multiple deciduous and evergreen trees directly upwind (northwest) of the building, effectively creating a natural wind barrier.

Other site designs (A, C, D) do not position enough windbreak vegetation on the northwest side, making them less effective.

NCARB PPD guidelines emphasize site planning strategies that leverage natural vegetation as windbreaks to improve microclimate, energy efficiency, and occupant comfort.

References:

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

### NEW QUESTION # 60

Which of the following need to be considered to enhance the acoustic design of an office building? Check the four that apply.

- A. Location of noise-sensitive areas relative to noise-producing elements

- B. Use of exterior natural or constructed barriers to reduce impact from external noise sources, absorption, and increase reverberation times
- C. Selection of interior finish treatments that will decrease sound absorption
- D. Minimize the use of steel stud framing and gypsum board for interior partitions
- E. Acoustical properties of interior floor, wall, and ceiling finish materials
- F. Type of the structural floor system construction between floors

**Answer: A,B,E,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Enhancing acoustic design requires:

(A) Careful location of noise-sensitive spaces away from noise sources.

(B) Choosing structural floor systems with good sound isolation between floors.

(D) Using exterior barriers (natural or built) to reduce external noise.

(E) Selecting interior finishes with favorable acoustical absorption properties.

Minimizing steel stud framing (C) is not always required; proper detailing can address acoustic issues.

Treatments that decrease sound absorption (F) worsen acoustics.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Acoustics

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

### NEW QUESTION # 61

Refer to the exhibit (lighting fixtures with Kelvin temperatures and CRI values).

An architect is evaluating downlighting for a new restaurant. The owner requests the lighting cast a warm light, be energy efficient, and allow for the colors of the chef's food to accurately appear while guests are seated.

What fixture manufacturer satisfies the owner's request?

- A. Luxenardo (Metal Halide, 5000K, 90 CRI)
- B. Mornath Industries (Fluorescent, 2800K, 79 CRI)
- C. VeriSPEK Fixtures (Halogen, 3000K, 95 CRI)
- D. Bea-Lele Lighting (LED, 2800K, 91 CRI)

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The owner's requirements include:

Warm light: Lower color temperatures (~2700K to 3000K) produce warm light, flattering food and ambiance.

Both Mornath (2800K) and Bea-Lele (2800K) meet this.

Energy efficiency: LEDs are generally more energy efficient than halogen, fluorescent, and metal halide fixtures.

Accurate color rendering: A high Color Rendering Index (CRI) above 90 is desirable to accurately render food colors. Bea-Lele Lighting (91 CRI) and VeriSPEK Fixtures (95 CRI) meet this.

Between Bea-Lele and VeriSPEK, LED fixtures are more energy efficient than halogen, making Bea-Lele Lighting (LED, 2800K, 91 CRI) the best choice.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Lighting Design

The Architect's Handbook of Professional Practice, 15th Edition - Lighting and Color Rendering

### NEW QUESTION # 62

Structural costs for wind resistance increase exponentially as building height is increased, primarily due to which of the following factors? Check the two that apply.

- A. Wind pressure is greater at higher surfaces.
- B. Snow and rain loads increase on the roof portion of the structure.
- C. Use of precast panels instead of metal/glass panels increase costs.
- D. There is a need for control of excessive drift at higher floors.
- E. Live load increases as the number of stories increase.
- F. Dead load increases as the number of stories increases.

**Answer: A,D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

As building height increases, wind pressures acting on the building surfaces increase because wind speed generally increases with elevation due to reduced friction from ground features (A).

Additionally, taller buildings experience larger lateral displacements (drift), requiring more complex structural systems and stiffer frames to control excessive drift for occupant comfort and structural safety (E).

This requirement significantly increases structural costs.

Dead load (B) and live load (D) increase with stories but do not increase exponentially or primarily affect wind resistance costs.

Snow and rain loads (C) mostly affect the roof, not height-related wind loads.

Choice of cladding materials (F) impacts cost but is not a primary reason for exponential wind resistance cost increases.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Structural Wind Design The Architect's Handbook of Professional Practice, 15th Edition - Wind Loads and Structural Costs

### NEW QUESTION # 63

An owner requests full height, motorized solar shades for the lobby curtainwall.

Click on the area of the section detail where the shade should be installed so that it is concealed from the lobby.

☐

**Answer:**

Explanation:

☐

Explanation:

The solar shade should be installed within the ceiling recess above the curtainwall, behind the horizontal soffit-specifically in the void space between the top of the curtainwall glazing and the structural ceiling soffit (the shaded area immediately above the curtainwall glass in the section).

☐

### NEW QUESTION # 64

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