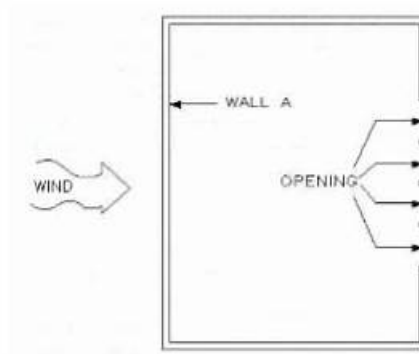


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## NCARB Project-Planning-Design Exam Syllabus Topics:

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>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>
Topic 3	<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 4	<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 5

- 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.

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## NCARB Study Project-Planning-Design Dumps | Easy To Study and Pass Exam at first attempt & Project-Planning-Design: ARE 5.0 Project Planning & Design (PPD)

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### NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q73-Q78):

#### NEW QUESTION # 73

Which exterior elements control daylighting? Check the three that apply.

- A. Spandrel panels
- B. Parapet walls
- C. Vertical louvers
- D. Horizontal louvers
- E. Roof overhangs
- F. Horizontal girt

**Answer: C,D,E**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Exterior shading devices control daylight penetration and solar heat gain:

Roof overhangs (A) shade upper window areas and reduce direct sunlight in summer.

Horizontal louvers (C) block high-angle summer sun but allow low-angle winter sun.

Vertical louvers (E) control low-angle sun from east/west directions and reduce glare.

Horizontal girts (B) and spandrel panels (D) are structural or opaque elements, not designed for daylight control.

Parapet walls (F) can shade roof edges but are not primary daylight controls.

References:

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

#### NEW QUESTION # 74

A new four-story apartment building is being designed on a site that has solid bedrock subsurface conditions.

The client requested the lowest cost of installation, highest energy efficiency, the shortest round trip time, and minimized loss of usable building space.

Which elevator type should the architect recommend?

- A. Gearless traction elevator
- B. Machine-roomless elevator
- C. Dual jack hole-less hydraulic elevator
- D. Conventional hydraulic elevator

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Given the constraints:

Lowest cost of installation and minimized loss of usable space favor elevators that don't require a separate machine room.

Machine-roomless elevators (D) have compact machinery integrated within the hoistway, reducing space needs and construction costs.

Hydraulic elevators (A, C) require pits and often larger machine rooms, and are less energy efficient and have slower round trip times compared to traction types.

Gearless traction elevators (B) provide excellent speed and efficiency but usually require machine rooms, increasing cost and space. Thus, machine-roomless elevators balance cost, efficiency, space, and speed best for mid-rise residential buildings.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Vertical Transportation

The Architect's Handbook of Professional Practice, 15th Edition - Elevators and Conveying Systems

### NEW QUESTION # 75

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

**Answer: A**

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 # 76

During design development of a new college laboratory facility, the owner asks the architect to include way-finding signage mounted adjacent to doors. The type of signage requested will project into the corridors of the building.

Which of the following should the architect consider when selecting the signage? Check the three that apply.

- A. ADA accessibility requirements
- B. IBC exit width requirements
- C. Local zoning ordinance on signage
- D. Signage material and finish type
- E. International Energy Code
- F. Manufacturer installation information

**Answer: A,B,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When signage projects into corridors:

ADA requirements (A) ensure signage is accessible to all, including those with disabilities.

IBC exit width requirements (B) ensure projected signage does not reduce required egress widths.

Manufacturer installation information (F) guides proper, safe mounting and compliance with structural requirements.

Zoning (D) is generally for exterior signage.

Energy code (E) is not related.

Material and finish (C) affect aesthetics but not code compliance.

References:

ARE 5.0 PPD - Codes and Regulations, Accessibility

### NEW QUESTION # 77

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 A
- B. Site B
- 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 # 78

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