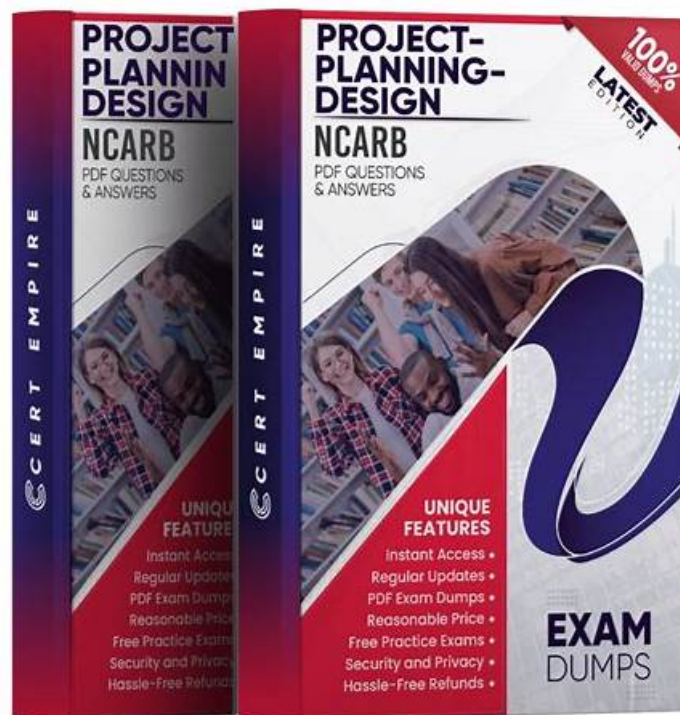


# NCARB Project-Planning-Design Unlimited Exam Practice & Project-Planning-Design Dumps



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

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>Environmental Conditions &amp; Context:</b> 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 2	<ul style="list-style-type: none"><li>• <b>Codes &amp; Regulations:</b> 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 3	<ul style="list-style-type: none"><li>• <b>Project Costs &amp; Budgeting:</b> 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>• <b>Project Integration of Program &amp; Systems:</b> 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 5	<ul style="list-style-type: none"> <li>• <b>Building Systems, Materials, &amp; Assemblies:</b> 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 (Q75-Q80):

#### NEW QUESTION # 75

Click on the shading device illustration that most effectively reduces summer solar heat gain through a west-facing window in the Northern Hemisphere.

□

**Answer:**

Explanation:

□ Explanation:

bottom right (vertical fins or louvers shading the window) is the most effective.

\* West-facing windows receive strong, low-angle afternoon sun in the summer, which is difficult to shade with horizontal overhangs because the sun's rays come in at a low angle.

\* Vertical shading devices (like fins or louvers) placed perpendicular to the window are most effective in blocking low-angle sunlight from the west.

\* The top left and top right images show horizontal shading, which works better for south-facing windows but is less effective for west exposures.

\* The bottom left shows multiple horizontal fins, which help but still less effective for west-facing windows compared to vertical fins. According to NCARB ARE 5.0 PPD content on solar shading and passive solar design, vertical shading is preferred for east and west exposures to minimize summer heat gain.

#### NEW QUESTION # 76

Which strategy enhances passive solar residential design in the northern hemisphere?

- A. Installing an electric baseboard heating system
- B. Eliminating insulated glazing along the northern walls
- **C. Locating deciduous trees along the south side of the house**
- D. Reducing heat storage capacity

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Passive solar design in the northern hemisphere relies on maximizing solar gain during the winter while minimizing overheating during summer.

Deciduous trees located on the south side provide shade during the summer (when they have leaves), reducing cooling loads, and allow sunlight to penetrate in the winter after leaf fall, enhancing solar heat gain. This seasonal shading improves comfort and energy

efficiency.

Eliminating insulated glazing on the north walls (B) increases heat loss, which is undesirable in cold climates.

Reducing heat storage capacity (C) lowers the building's thermal mass, decreasing its ability to moderate temperature swings, which is counterproductive.

Installing electric baseboard heating (D) is a mechanical solution and does not enhance passive solar design.

Therefore, option A is the best strategy consistent with passive solar principles.

References:

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

### NEW QUESTION # 77

The zoning approval process may involve obtaining which of the following? Check the four that apply.

- A. Special exception
- B. Variance
- C. Undue hardship exemption
- D. Grading permit
- E. Conditional use
- F. Building permit

**Answer: A,B,D,E**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Zoning approval can involve:

Variance (A): Permission to deviate from zoning requirements.

Grading permit (C): Approves site grading related to zoning.

Conditional use (D): Allows use under specific conditions.

Special exception (E): Permits uses not normally allowed but granted under certain circumstances.

Building permits (B) are separate from zoning.

Undue hardship exemption (F) is legal but not typically a zoning approval term.

References:

ARE 5.0 PPD - Codes and Regulations, Zoning

The Architect's Handbook of Professional Practice, 15th Edition - Land Use Controls

### NEW QUESTION # 78

The rehabilitation of a warehouse for a commercial occupancy has a heavy anticipated electrical distribution load and it is expected that the current of the electrical system will be expanded in the near future.

The least expensive and most flexible electrical distribution system would be comprised of which one of the following?

- A. Single large aluminum or copper conductor
- B. Paralleled sets of copper wire in conduits
- C. Aluminum or copper bus duct with tap boxes
- D. Paralleled sets of aluminum wire in conduits

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bus duct systems with tap boxes offer modular, flexible electrical distribution capable of handling high loads and allowing easy future expansions with minimal disruption and cost.

Paralleled wires (A, B) increase complexity and are less flexible.

Single large conductors (C) are limited in expansion.

Bus ducts optimize installation speed, scalability, and cost in commercial building retrofits.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems

The Architect's Handbook of Professional Practice, 15th Edition - Electrical Distribution

### NEW QUESTION # 79

Which of the following is the most appropriate action for the architect to take in preparing a construction cost estimate for an owner after completing the schematic design phase?

- A. Vary the amount of the contingency allowance depending on the funds in the possession of the owner.
- B. Double the contingency allowance for profit if the owner requires the use of a construction manager.
- **C. Include a larger contingency percentage for the design development phase than for the construction document phase.**
- D. Provide the greatest contingency allowance in the construction administration phase.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Contingency allowances should be larger during the earlier phases (such as schematic design) due to greater unknowns and potential design changes. As the design progresses and more details are defined, contingency can be reduced.

Varying contingency based on owner funds (B) is inappropriate.

Contingency during construction administration (C) is typically lower.

Doubling contingency for CM use (D) is not standard practice.

References:

ARE 5.0 PPD - Project Costs and Budgeting

The Architect's Handbook of Professional Practice, 15th Edition - Cost Estimating

### NEW QUESTION # 80

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