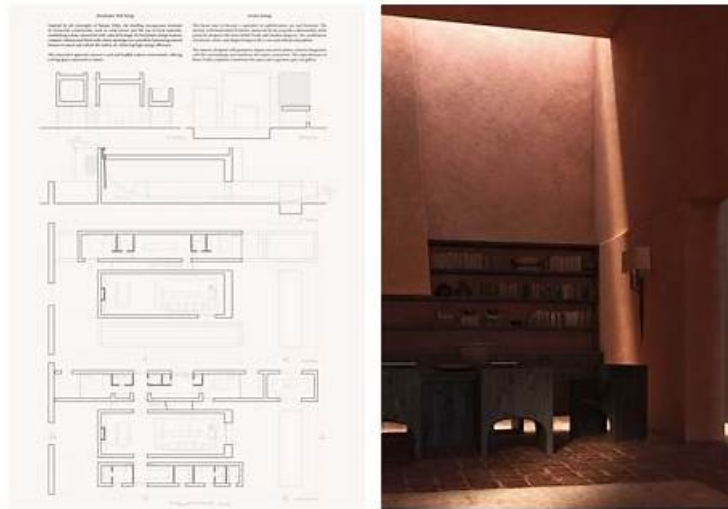


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## NCARB Project-Planning-Design Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <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 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>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 4 | <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 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>         |

# Top Project-Planning-Design Reliable Test Voucher | High-quality NCARB Project-Planning-Design: ARE 5.0 Project Planning & Design (PPD) 100% Pass

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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q41-Q46):

### NEW QUESTION # 41

In high-rise building construction, which advantages does the use of composite floor decking offer over the use of flat plates? Check the four that apply.

- A. Steel construction provides decreased sound transmission compared to flat plate systems.
- B. Lightweight concrete may be used to reduce dead weight of the structure.
- C. Metal decks provide a working platform, eliminating the need for wood planking.
- D. Composite decks provide positive reinforcement for concrete slabs.
- E. Shear connectors are not required between the concrete and the beams below.
- F. Composite decks serve as forms for concrete, eliminating the need for forming and stripping.

**Answer: B,C,D,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Composite floor decking advantages:

- (A) Composite action reinforces slabs, improving strength.
- (C) Metal decks serve as working platforms, speeding construction.
- (D) Decks act as permanent formwork, eliminating temporary formwork.
- (E) Lightweight concrete can be used to reduce structural weight.
- (B) Shear connectors are required for composite action, so this is incorrect.
- (F) Steel generally increases sound transmission compared to flat plate concrete, so false.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Structural Systems

The Architect's Handbook of Professional Practice, 15th Edition - Steel Construction

### NEW QUESTION # 42

A divisional cost breakdown method of cost estimating has which of the following advantages over a cost per square foot method of cost estimating?

- A. It is useful for generic buildings.
- B. It provides a quick reference or check at the early design stages.
- C. It provides a simple method to calculate costs.
- D. It is useful throughout design and construction of the project.

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The divisional cost breakdown method organizes project costs by divisions (e.g., site work, concrete, finishes), which allows for detailed tracking and estimation of costs throughout design and construction phases. This method is more comprehensive and flexible compared to the simple cost per square foot method, which is primarily useful early in design for rough order-of-magnitude estimates.

Therefore, the divisional method's key advantage is its usefulness throughout the project lifecycle for cost management, enabling more accurate updates and adjustments as design progresses.

References:

### NEW QUESTION # 43

A site has been engineered with a 1:20 grade.

Which of the following sidewalk designs would be the most cost-effective way to get from the top to the bottom and still be in compliance with the accessibility standards?

- A. Cutting diagonally across the slope at 1:10 with a handrail
- B. At the same grade as the slope with no handrail
- C. Cutting diagonally across the slope at 1:12 with no handrail
- D. Switchback ramps at 1:12 with a handrail

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A 1:20 slope means a 5% grade (1 vertical unit per 20 horizontal units), which is slightly steeper than the ideal maximum slope for accessible ramps.

\* Option C: Cutting diagonally across the slope at 1:12 (~8.33%) slope without a handrail is the most cost-effective design that still complies with accessibility standards. According to the Americans with Disabilities Act (ADA) and ICC A117.1, the maximum slope for an accessible ramp is 1:12. Handrails are required on ramps with a rise greater than 6 inches (150 mm). If the rise is less than 6 inches, handrails are not required.

Because the diagonal cut reduces the slope to 1:12 and the total rise is likely less than 6 inches given the gentle 1:20 original slope, handrails are not mandatory, making this solution economical and code compliant.

\* Option A: Switchback ramps at 1:12 with handrails are compliant but more expensive due to increased construction complexity and space requirements.

\* Option B: A 1:10 slope (10%) exceeds the maximum allowed slope for accessible ramps and requires handrails, thus non-compliant.

\* Option D: Following the existing 1:20 slope without modification does not provide the maximum accessibility slope and may be acceptable but might not comply with certain stricter local codes for ramps.

Therefore, Option C balances accessibility, cost, and compliance optimally.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Site Accessibility and Grading ADA Standards for Accessible Design (2010) ICC A117.1 Accessibility Standards The Architect's Handbook of Professional Practice, 15th Edition, Chapter 7: Site Planning and Accessibility

### NEW QUESTION # 44

A client asks that a lighting system be designed using the initial lamp lumen output.

Which of the following effects would this request have on the standard light design?

- A. It will increase the glare.
- B. It will decrease the number of lamps.
- C. It will increase the number of lamps.
- D. It will decrease the glare.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Designing lighting systems based on initial lamp lumen output (the maximum light output when lamps are new) without accounting for lumen depreciation (light loss over time) typically leads to increased number of lamps or fixtures to compensate for future light loss, ensuring adequate illumination throughout the system's life.

This approach does not directly affect glare (B, D).

It does not decrease the number of lamps (A); it often increases them for safety margin.

References:

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

### NEW QUESTION # 45

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

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

**Answer: D**

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 # 46

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