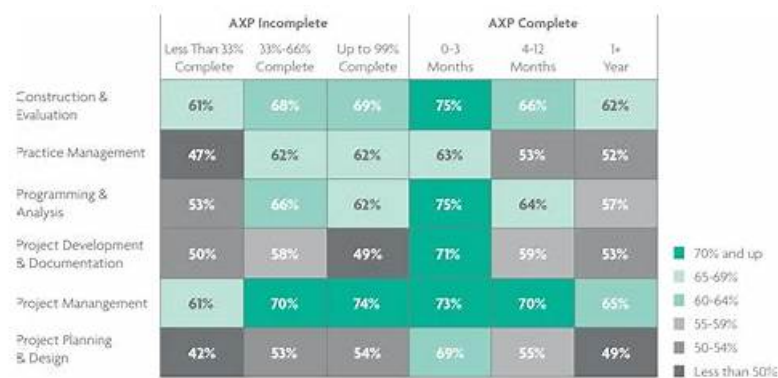


# Pass Guaranteed NCARB - Efficient Trustworthy Project-Planning-Design Exam Torrent



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

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <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 2 | <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 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>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 | <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> |

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## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q35-Q40):

### NEW QUESTION # 35

In order to minimize stratification, in a forced-air heating system, which locations of supply and return grilles should be avoided?

- A. High supply, low return
- B. High supply, high return
- C. Low supply, low return
- D. Low supply, high return

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Stratification refers to the layering of air temperatures within a space, where warmer air rises and cooler air stays near the floor. In forced-air heating systems, minimizing temperature stratification is critical to maintaining occupant comfort and energy efficiency. The placement of supply and return air grilles plays a significant role in preventing stratification.

\* Low supply, low return (Option C) should be avoided because supplying warm air near the floor and simultaneously returning air also near the floor limits effective air mixing. Warm air naturally rises, so if the return grille is also low, cooler air remains trapped above, resulting in poor circulation and uneven temperatures throughout the room. This can cause discomfort, with warmer air accumulating near the ceiling and colder air lingering in the occupied zone.

\* High supply, low return (Option B) is often preferred because warm air is supplied from high points, then cools and sinks toward the lower return grille, promoting vertical circulation and mixing, reducing stratification.

\* Low supply, high return (Option A) and high supply, high return (Option D) can be less effective depending on system design, but the critical issue is having both supply and return located low, which restricts air movement and stratification mitigation.

According to NCARB PPD content on building systems and HVAC design, proper grille placement is essential to maintain thermal comfort, minimize energy waste, and comply with indoor environmental quality standards. Effective grille placement harnesses natural convection to ensure even temperature distribution, reducing the potential for hot or cold spots and improving occupant satisfaction.

References:

ARE 5.0 Project Planning & Design: Building Systems, Materials, and Assemblies - HVAC Principles Black Spectacles ARE PPD Study Materials: Forced Air Heating and Cooling Systems The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Mechanical Systems and Indoor Environmental Quality

### NEW QUESTION # 36

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

**Answer: B**

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 # 37

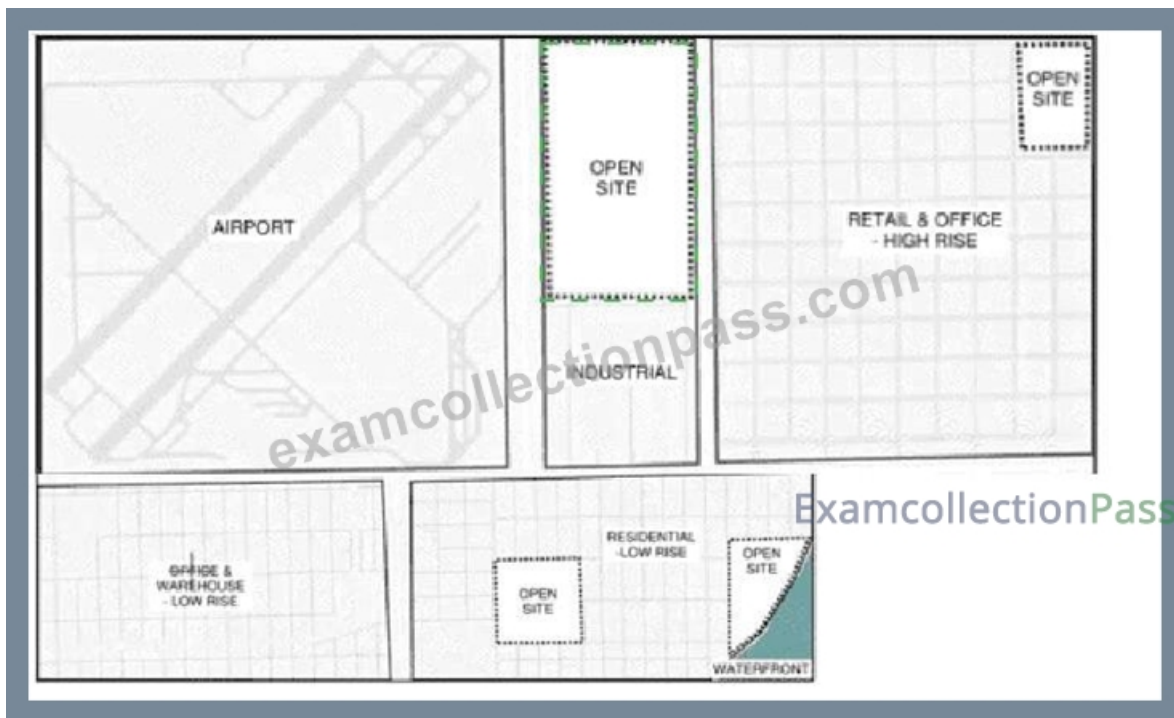
An architect is developing a master plan for a small area of a city located on a lake. The master plan has four open sites being considered for a proposed park. The city needs to avoid incoming noise pollution at the park and provide a variety of activities for the city.

Click on the open site that is appropriate for a city park with baseball fields and nature trails.



**Answer:**

**Explanation:**



Explanation:

open site directly adjacent to the industrial zone

It is away from the airport noise to the west.

It is separated from the residential low-rise and waterfront areas, reducing impact on sensitive neighbors.

It provides enough space and separation from commercial and retail zones (right map).

It avoids the smaller open sites on the waterfront and retail area, which are constrained and may be affected by residential noise concerns or limited in size.

#### NEW QUESTION # 38

A multistory warehouse is to be converted into a high-tech office building. The owners propose a variety of services and flexibility to tenants, including cable/internet, fiber optic communications, dish/satellite, and security systems.

In order to accommodate this broad array of electronic and communications services, the architect should recommend which of the following electrical and communications distribution systems?

- A. Flat cable wiring system
- **B. Raised access floor system**
- C. Poke-through system
- D. Cellular deck system

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

A raised access floor system provides a flexible, accessible space beneath the finished floor for routing power, data, telecommunications, and security cables. It facilitates easy reconfiguration and tenant fit-out modifications without major disruption.

Poke-through systems (A) provide limited point access for power/data and are less flexible for extensive rewiring.

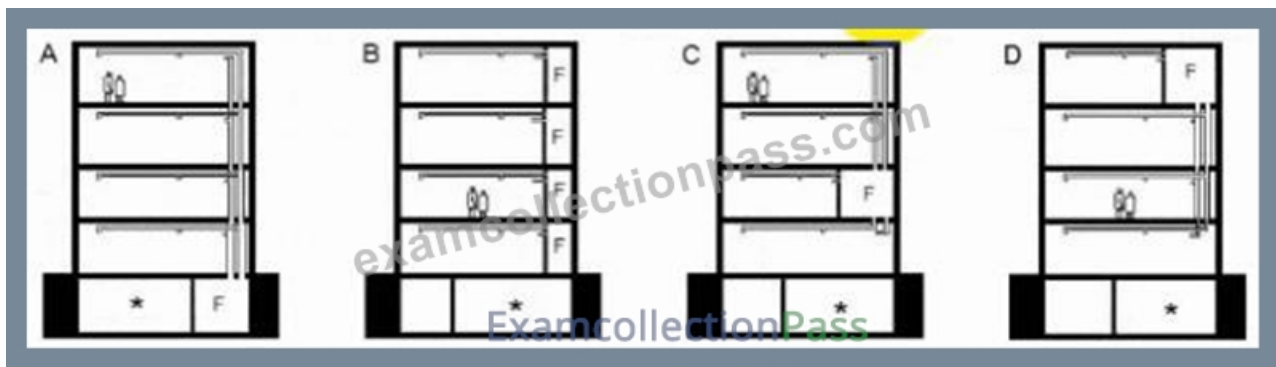
Cellular deck systems (B) are structural components, not distribution systems.

Flat cable wiring (D) is a wiring method but does not provide the physical infrastructure for flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical and Communications Systems The Architect's Handbook of Professional Practice, 15th Edition - Data and Power Distribution

#### NEW QUESTION # 39



Refer to the exhibit (four building sections with fan locations (F) and boiler/chiller equipment (\*)).

Which of the fan locations (F) indicated for a four-story office building would allow the most efficient provision for weekend cooling?

- A. B
- B. D
- C. C
- D. A

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For efficient weekend cooling in a multi-story office building, placing fan equipment centrally between the conditioned spaces reduces duct lengths, allows better zoning, and minimizes energy use.

In option C, fans are located mid-building between office floors and other uses, allowing for more efficient distribution and individual zone control.

Other options (A, B, D) place fans either all at one end or stacked at one side, increasing duct runs and reducing flexibility in zoning, which can lead to inefficiency during reduced loads like weekends.

NCARB PPD guidelines emphasize mechanical system design that optimizes equipment placement to balance energy efficiency, occupant comfort, and system flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC System Design

The Architect's Handbook of Professional Practice, 15th Edition - Mechanical Equipment Layout

## NEW QUESTION # 40

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