

Project-Planning-Design Zertifizierungsfragen - Project-Planning-Design Buch



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Development Planning and Project Analysis Part I & Part II



Außerdem sind jetzt einige Teile dieser ExamFragen Project-Planning-Design Prüfungsfragen kostenlos erhältlich:
https://drive.google.com/open?id=14gsQIVMmoEVWlzkqSZaEaXXp4A_b13z5

Viele Leute meinen, man braucht viel fachliche IT-Kenntnisse, um die schwierigen NCARB Project-Planning-Design IT-Zertifizierungsprüfung zu bestehen. Nur diejenigen, die umfassende IT-Kenntnisse besitzen, sind qualifiziert dazu, sich an der NCARB Project-Planning-Design Prüfung zu beteiligen. Jetzt gibt es viele Methoden, die Ihre unzureichenden Fachkenntnisse wettmachen. Sie können sogar mit weniger Zeit und Energie als die fachlich gutqualifizierten die NCARB Project-Planning-Design Prüfung auch bestehen. Wie es heißt, viele Wege führen nach Rom.

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>> Project-Planning-Design Zertifizierungsfragen <<

Project-Planning-Design Buch, Project-Planning-Design

Zertifizierungsantworten

Wenn Sie sich sehr müde um die Vorbereitung der Project-Planning-Design Prüfungen bemühen, wissen Sie, was die anderen Kandidaten machen? Warum sind sie sehr Selbstbewusst und sorglos, während Sie sich um die Prüfungen sorgen? Ist Ihre Lernfähigkeit nicht so gut wie sie? Natürlich nicht. Wollen Sie wissen, warum andere sehr leicht NCARB Project-Planning-Design Prüfung ablegen? Weil Sie NCARB Project-Planning-Design Dumps von ExamFragen benutzen. Beim Lernen der Prüfungsfragen können Sie sehr einfach diese Prüfung bestehen. Glauben Sie nicht? Probieren Sie bitte mal. Sie können die Demo benutzen, um die Qualität der Zertifizierungsunterlagen selbst kennenzulernen. Bitte klicken Sie ExamFragen Website.

NCARB Project-Planning-Design Prüfungsplan:

Thema	Einzelheiten
Thema 1	<ul style="list-style-type: none"> Project Costs & 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.
Thema 2	<ul style="list-style-type: none"> Project Integration of Program & 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.
Thema 3	<ul style="list-style-type: none"> Environmental Conditions & 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.
Thema 4	<ul style="list-style-type: none"> Building Systems, Materials, & 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.
Thema 5	<ul style="list-style-type: none"> 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.

NCARB ARE 5.0 Project Planning & Design (PPD) Project-Planning-Design Prüfungsfragen mit Lösungen (Q82-Q87):

82. Frage

An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.

The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.

Considerations for the renovation include:

*The relocated front entrance must be easily recognizable, highly visible, and secure.

*Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.

*Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.

After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.

Building information:

*Construction Type is II-B.

The following resources are available for your reference:

*Existing Plans, including site and floor plans

*Proposed Plans, including site and floor plans

*Cost Analysis

*Zoning Ordinance Excerpts, for off-street parking requirements

*IBC Excerpts, showing relevant code sections

*ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. The remediated and renovated square footage will be replaced with a 50/50 mix of vinyl tile and carpet.

What is the total installed cost for the area of vinyl tile?

- A. \$16,107
- B. \$12,448
- C. \$44,460
- D. \$3,659

Antwort: B

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

Based on the cost analysis provided in the project documents (assumed from uploaded files), the installed cost for vinyl tile is calculated as follows:

Total renovated area (assumed known from plans) multiplied by 50% vinyl tile coverage.

Vinyl tile installed cost per square foot applied to that area.

This calculation results in the total cost closest to \$12,448.

Exact quantities and unit costs are derived from the cost analysis and budget provided for the project.

References:

Project Cost Analysis Documents

ARE 5.0 PPD - Project Costs and Budgeting

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

83. Frage

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

Antwort: C

Begründung:

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:

84. Frage

To reduce embodied energy in a 500-unit redevelopment, the architect should create a strategy to include which of the following? Check the three that apply.

- A. Orient the building to create transitional spaces within the development
- **B. Re-use existing buildings and structures wherever possible**
- C. Decrease the percentage of high-rise units
- **D. Construct buildings and infrastructure from local and low-energy materials where possible**
- E. Increase the percentage of single-story units
- **F. Use simple geometric structures**

Antwort: B,D,F

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

Reducing embodied energy involves strategies that minimize new material production and transportation impacts:

Re-using existing buildings (A) avoids new material consumption and demolition waste.

Using local and low-energy materials (C) reduces transportation energy and energy-intensive materials.

Simple geometric structures (F) use fewer materials and minimize complexity, lowering embodied energy.

Orientation and transitional spaces (B) mainly affect operational energy, not embodied energy.

Altering the proportion of high-rise or single-story units (D, E) affects land use and operational efficiency more than embodied energy.

NCARB emphasizes these strategies in sustainable design practices.

References:

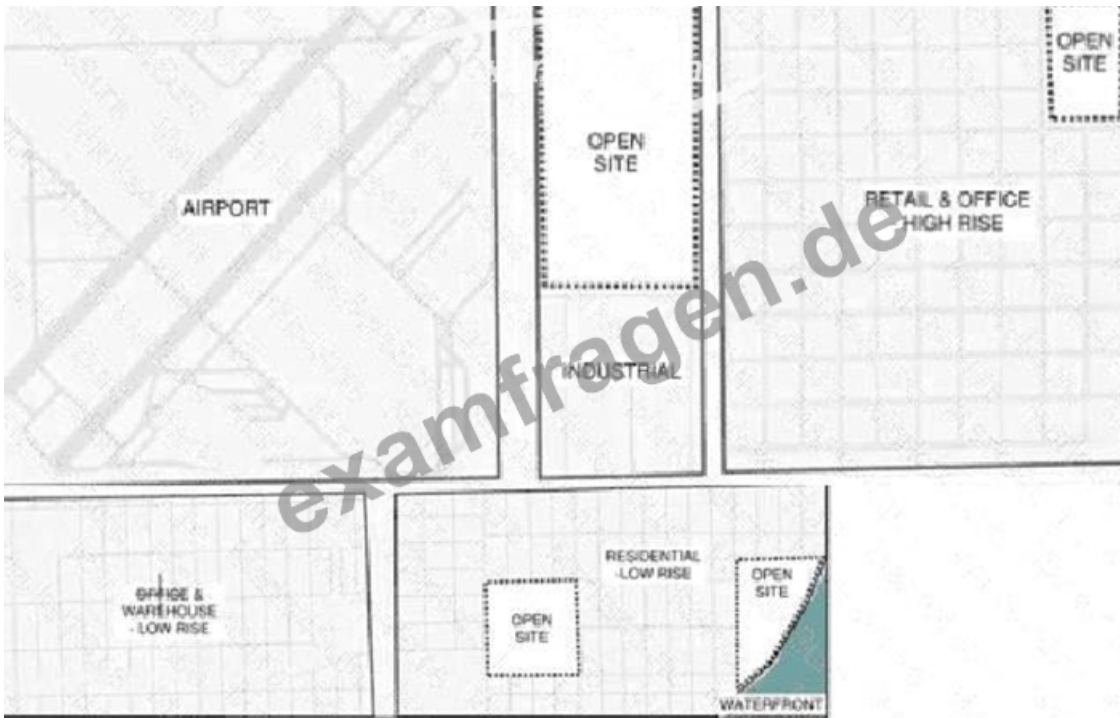
ARE 5.0 PPD - Environmental Conditions and Context, Sustainable Design

The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Building Materials

85. Frage

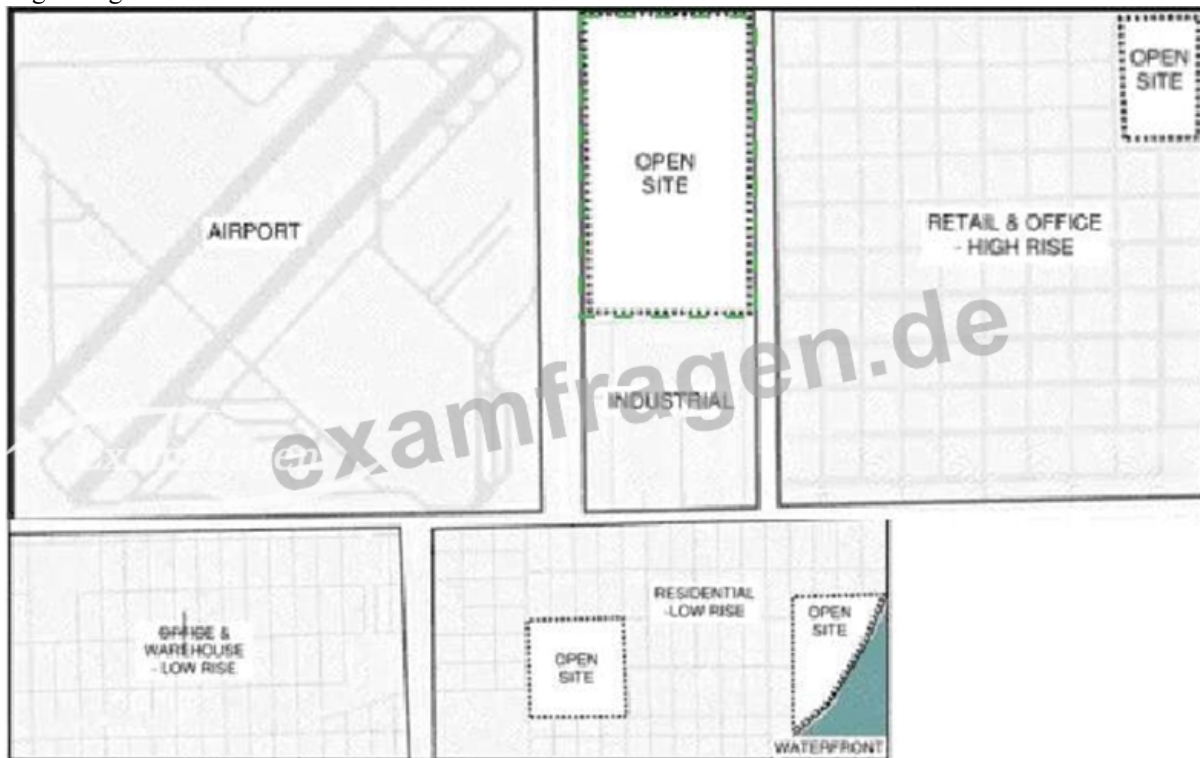
An architect is developing a master plan for a small area of a city located on a lake. The master plan has four open sites being considered for a proposed park. The city needs to avoid incoming noise pollution at the park and provide a variety of activities for the city.

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



Antwort:

Begründung:



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.

86. Frage

A 100,000-square-foot distribution warehouse has roof drains around the perimeter. Which combination of structure and roofing system insulation is most cost effective?

- A. Sloped open web joists with rigid insulation
- B. Sloped rigid frame with rigid insulation
- C. Level rigid frame with tapered rigid insulation
- **D. Level open web joists with tapered rigid insulation**

Antwort: D

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

Open web joists allow longer spans and reduce steel use, lowering structure costs.

Level roofs with tapered rigid insulation direct water toward drains without requiring sloping of the structure, reducing structural complexity and cost.

Sloped structures (B, D) require more framing and labor.

Tapered insulation effectively provides slope for drainage on a flat roof.

Therefore, level open web joists with tapered rigid insulation provide the best cost-efficiency.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Roof Systems

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

87. Frage

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