

Project-Planning-Design Testfagen & Project-Planning-Design PDF

Training Objectives

By the end of the training, participants will be able to:

- Deliver the project results in the context of time, budget, quality, scope, risk and benefit constraints
- Develop comprehensive and detailed project plans and managing them through the entire life of the project;
- Identify the characteristics of successful and unsuccessful project
- Identify potential risks and establishing processes to avoid and address these risks and ensuring that the intended project benefits are delivered
- Complete the five steps of the Logical Framework Approach

2/27/2017



P.S. Kostenlose 2026 NCARB Project-Planning-Design Prüfungsfragen sind auf Google Drive freigegeben von ZertFragen verfügbar: <https://drive.google.com/open?id=1uK-t1KaJ8xDm4Qw6iQXNrUYBzBLVmcw>

Es ist besser, zu handeln als die anderen zu beneiden. Die Prüfungsmaterialien zur NCARB Project-Planning-Design Zertifizierungsprüfung von ZertFragen wird Ihr erster Schritt zum Erfolg. Mit ZertFragen können Sie sicher die schwierige NCARB Project-Planning-Design Prüfung bestehen. Mit diesem NCARB Project-Planning-Design Zertifikat können Sie ein Licht in Ihrem Herzen anzünden und neue Wege einschlagen und ein erfolgreiches Leben führen.

NCARB Project-Planning-Design Prüfungsplan:

Thema	Einzelheiten
Thema 1	<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.
Thema 2	<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 3	<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 4	<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 5	<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.

Project-Planning-Design PDF & Project-Planning-Design Testengine

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NCARB ARE 5.0 Project Planning & Design (PPD) Project-Planning-Design Prüfungsfragen mit Lösungen (Q45-Q50):

45. 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.

46. Frage

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

Antwort:

Begründung:

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.

47. Frage

An architect has just received client approval of the Schematic Design documents for a three-story, outpatient medical clinic. The clinic is located within a mixed-use development governed by a City-approved Planned Development (PD) document. The medical clinic design utilizes standardized departmental layouts and includes outpatient clinics, as well as treatment spaces, administrative spaces and public/lobby spaces.

The site needs to accommodate four different vehicular traffic flows: patient traffic, staff traffic, service and delivery traffic, and emergency services traffic. In addition, a pedestrian plaza must connect to the mixed-use development sidewalks. The plaza must

provide space for bicycle parking and will serve as the future bus stop.

The site design addresses several challenges related to building orientation. The southeast facade, with excellent visibility from the highway, is the location of all service equipment. The building entrance faces northwest, convenient to the parking but not visible from the highway.

The client believes future patient volumes will outgrow the clinic. The PD document allows for a planned Phase 2 development on the adjacent vacant site to the southwest. Phase 2 would include a second building (2 story, 80,000 BGSF) and/or a parking deck. Other considerations for the project include:

- * Protected tree requirements are defined in the PD document.
- * Easy pedestrian access must be provided from Sycamore Boulevard.
- * All required parking for the clinic must be accommodated on site.
- * Programmed area includes 109,450 Departmental Gross Square Feet (DGSF) / 130,184 Building Gross Square Feet (BGSF).
- * Exterior material percentages are dictated by the PD document and shall not exceed specific percentages for Primary and Secondary Finishes.
- * All service equipment needs to be screened; see PD document for restrictions.
- * Signage opportunities are important to the client.
- * Acoustical privacy is a concern of the healthcare system.

The following resources are available for your reference:

- * Drawings, including a perspective, plans, and exterior elevations
- * Building Program, including client's departmental program and detailed program for Treatment 01 (Infusion)
- * Exterior Material Cost Comparisons
- * Planned Development Document
- * IBC Excerpts, showing relevant code sections
- * ADA Excerpts, showing relevant sections from the ADA Standards for Accessible Design After construction, the owner asks the architect to integrate sustainable features that would offset building operational costs and have minimal changes to the existing design and future development.

Which of the following sustainable features should the architect consider?

- A. Roof-mounted PV panels
- B. Building-mounted vertical sunshades
- C. Ground-mounted PV panels

Antwort: A

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

Roof-mounted photovoltaic (PV) panels are the most appropriate sustainable feature to offset building operational costs with minimal design changes, especially in a mixed-use development with planned future expansion.

Building-mounted vertical sunshades (A) require design integration and may affect exterior finishes and daylighting.

Ground-mounted PV panels (C) require additional land and site preparation, which could conflict with future development plans and site constraints.

Roof-mounted PV panels maximize use of existing roof space, reduce energy costs, and are relatively easy to integrate with minimal impact on building massing or future phases.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Renewable Energy

Planned Development Document

48. Frage

An architect's client is focused on lighting energy savings and daylighting design in a new 3,000 ft² commercial building addition to expand showroom and office square footage. The client requests reasonable daylighting measures in the design.

What should the architect recommend to the client?

- A. Provide for daylight-responsive control of electric lighting
- B. Limit ample access to daylight to the interior spaces only
- C. Isolate electric lighting for daylight-responsive control to within a single zone
- D. Increase sunlight in the vicinity of critical visual tasks

Antwort: A

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

Daylight-responsive control systems automatically adjust electric lighting based on available natural light, reducing energy use and improving occupant comfort.

Isolating lighting to a single zone (A) limits effectiveness.

Limiting daylight access (C) reduces benefits.

Increasing sunlight near tasks (D) can cause glare.

Thus, providing daylight-responsive electric lighting control is recommended.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Daylighting

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

49. Frage

Refer to the exhibit (building with wind impacting wall A, and openings shown).

For the building subjected to wind as shown, the design pressure acting on the interior face of wall A would be what?

- A. Acting away from wall A only
- B. Zero
- C. Acting both toward and away from wall A
- D. Acting toward wall A only

Antwort: C

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

With openings allowing wind passage, pressure on the interior of wall A varies:

Wind pressure on the windward side induces positive pressure toward wall A.

Wind entering openings can create localized negative pressure (suction) on the interior surface, acting away from wall A.

Thus, the interior face experiences both positive and negative pressures depending on location and airflow, meaning D. Acting both toward and away from wall A is correct.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Wind Loads on Building Enclosures The Architect's Handbook of Professional Practice, 15th Edition - Building Envelope Design

50. Frage

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