

# New Project-Planning-Design Test Objectives, Project-Planning-Design Valid Test Guide

Test Plan	Test Strategy
A document that outlines the approach to be taken to test a specific software or system.	A high-level document that outlines the overall testing approach to be taken for an organization or project.
Specifies what will be tested, how it will be tested, and when it will be tested.	Specifies the testing types and methods to be used for a project, and outlines the testing goals, objectives, and scope.
Includes details such as the testing schedule, resources required, and the roles and responsibilities of the testing team.	Focuses on the long-term testing goals and objectives of an organization, and the high-level approach to achieving those goals.
Usually created for a specific project or release, and is more detailed than a test strategy.	Created at a higher level than a test plan, and is more general in nature.
Is used to guide the testing efforts for a specific project or release, and is focused on achieving the specific testing goals for that project.	Provides an overarching framework for testing within an organization or project, and serves as a guide for all testing efforts.

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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>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 4	<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 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>

## Project-Planning-Design Valid Test Guide, New Project-Planning-Design Test Sample

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### NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q39-Q44):

#### NEW QUESTION # 39

A church congregation has hired an architect to help them determine the feasibility of converting a retail strip mall space into a new church. The space is 30' wide and 125' long and is in an interior location with tenants on both long sides. The client has requested the following:

Natural light into the central gathering space

Nursery space for young children

Church office space

Adequate restrooms

Visually appealing landscaping

Which of the following should the architect consider to help determine if the project can move forward?

Check the three that apply.

- A. Analyze the existing building exits to determine their adequacy for the new use classification.
- B. Conduct a demographic survey of church membership to determine the capacity of the new restrooms.
- C. Conduct a demographic survey to determine the number of children to be served by the nursery.
- D. Check the existing roof structure to determine potential locations for skylights.
- E. Engage a landscaping consultant to determine visually appealing landscaping options.
- F. Investigate the existing water and sewer services to determine their adequacy for the new use classification.

**Answer: A,D,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When converting a retail strip mall to a church, the architect must verify that the existing building infrastructure supports the new occupancy:

(A) Exits and egress must be adequate per fire and life safety codes for assembly occupancy.

(B) Roof structure must be evaluated for installing skylights to bring natural light into central spaces.

(C) Water and sewer services need to support increased demand, especially with added restrooms and nursery.

Demographic surveys (D, E) inform program design but do not determine feasibility.

Landscaping consultants (F) are part of later design phases, not initial feasibility.

References:

ARE 5.0 PPD - Project Integration of Program and Systems

The Architect's Handbook of Professional Practice, 15th Edition - Adaptive Reuse

#### NEW QUESTION # 40

For a government-owned project, architects can reduce consumption and waste by including which of the following requirements in their design and specifications? Check the four that apply.

- A. Reuse of existing structures

- B. Limit bidding to local contractors
- C. Use of local materials
- D. Construction waste recycling
- E. Means of construction
- F. Use of low flow fixtures

**Answer: A,C,D,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To reduce consumption and waste, especially for government projects emphasizing sustainability:

Construction waste recycling (A): Diverts materials from landfill.

Use of local materials (B): Reduces transportation energy and emissions.

Reuse of existing structures (D): Minimizes new material use and demolition waste.

Use of low flow fixtures (F): Conserves water and reduces operational consumption.

Means of construction (C) and limiting bidding (E) affect cost and process but less directly impact waste reduction.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Sustainable Design

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

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### NEW QUESTION # 41

When designing a three-story wood-frame home located in a high wind region, the addition of a green roof with a two-foot soil bed would do which one of the following?

- A. Increase the structure's resistance to overturning
- B. Require additional tie-downs
- C. Increase the structure's resistance to racking

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Adding a green roof with a two-foot soil bed significantly increases the dead load on the roof and affects the uplift forces caused by high winds. This heavier roof mass necessitates additional structural tie-downs or anchorage to resist wind uplift and prevent overturning or structural failure.

The added weight does not inherently increase resistance to overturning (A) or racking (C); rather, it increases loads that require structural reinforcement.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Structural Loads and Wind Design The Architect's Handbook of Professional Practice, 15th Edition - Wind-Resistant Design

### NEW QUESTION # 42

If evaluating on a life-cycle basis, which of the following effects is the major reason for using native or adapted plantings on-site?

- A. Reduction in transplantation costs
- B. Reduction in irrigation water and fertilizer
- C. Reduction in root adaptation time period

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Native or adapted plantings are used primarily to reduce long-term environmental and maintenance costs in sustainable site design.

The most significant life-cycle benefit is the reduction in irrigation water and fertilizer requirements because native plants are naturally suited to local climate and soil conditions. They typically require less supplemental watering, fertilizer, and pesticide use, which reduces resource consumption and maintenance efforts over the plantings' lifespan.

Option B (Reduction in root adaptation time period) is a minor factor relative to water and nutrient needs.

Option C (Reduction in transplantation costs) relates more to initial installation cost rather than long-term life-cycle impacts.

Using native or adapted plant species supports sustainable landscape design principles emphasized in the NCARB PPD content, contributing to water conservation, reduced chemical use, and improved ecological performance.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Sustainable Site Design The Architect's Handbook of Professional Practice, 15th Edition - Landscape and Site Planning NCARB Sustainable Design Guidelines

### NEW QUESTION # 43

Refer to the exhibit (multi-use building with apartments, offices, stores, parking).

□ The multipurpose building shown is located in a cold-winter, mild-summer climate.

Which of the following is the best location for the mechanical equipment floor?

- A. Between the office and apartment levels
- B. Parking level
- C. Top floor
- D. Store level

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In mixed-use buildings in cold climates, placing mechanical equipment in a mid-level floor between different occupancy types (C) offers several benefits:

This location reduces the length and complexity of vertical distribution of heating and cooling systems to both apartments (above) and offices (below).

It avoids heat loss associated with exterior walls (as opposed to the top floor or parking level).

The equipment can be more centrally located, improving energy efficiency and system performance.

Locating equipment on the parking level (A) or store level (B) may require longer ductwork or piping runs and pose maintenance challenges.

The top floor (D) exposes mechanical equipment to outdoor weather, which is not ideal in cold climates.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Mechanical Systems in Mixed-Use Buildings The Architect's Handbook of Professional Practice, 15th Edition - HVAC Systems Design

### NEW QUESTION # 44

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