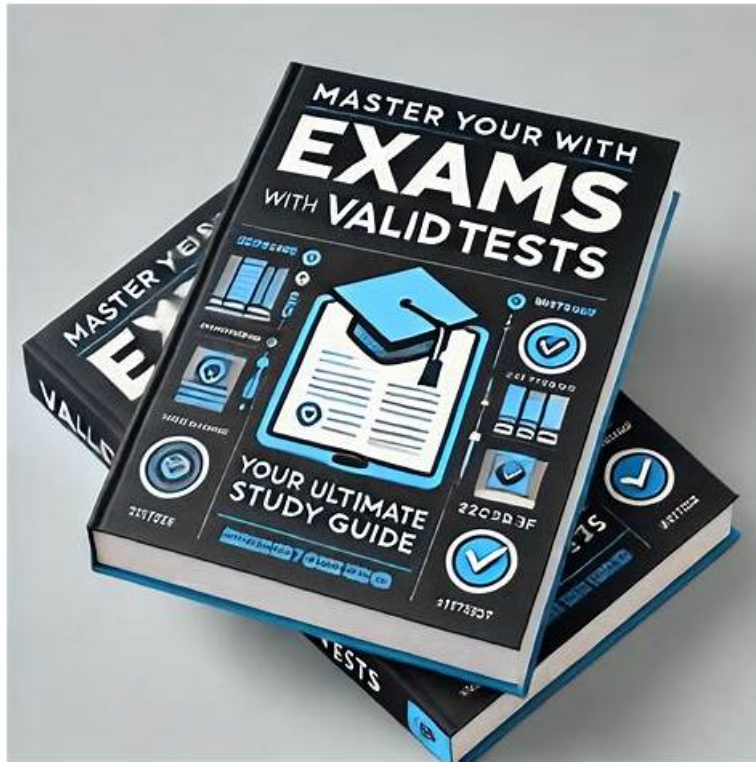


# Project-Planning-Design Valid Test Questions & Project-Planning-Design Latest Mock Exam



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

Topic	Details
Topic 1	<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>
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>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 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>

>> Project-Planning-Design Valid Test Questions <<

## Project-Planning-Design Latest Mock Exam & Study Project-Planning-Design Reference

Choosing our NCARB Project-Planning-Design study material, you will find that it will be very easy for you to overcome your shortcomings and become a persistent person. If you decide to buy our ARE 5.0 Project Planning & Design (PPD) Project-Planning-Design study questions, you can get the chance that you will pass your Project-Planning-Design exam and get the certification successfully in a short time.

### NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q15-Q20):

#### NEW QUESTION # 15

The use of a central computer system to monitor a building's heating and cooling demands will do which one of the following?

- A. Increase the cost of energy consumption
- B. Interactively select the least energy-intensive system or combination of systems
- C. Eliminate the use of a facility manager
- D. Be primarily for solar-heating and natural-cooling systems

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Central building automation systems (BAS) monitor and control HVAC and other systems to optimize energy efficiency by selecting the best combination of available systems and adjusting operation based on demand and conditions. This reduces energy consumption and operational costs.

BAS does not eliminate the need for facility managers (A), who oversee broader operations.

It aims to reduce, not increase, energy costs (C).

BAS is applicable to all mechanical systems, not limited to solar or natural cooling (D).

References:

ARE 5.0 PPD - Building Systems and Assemblies, Building Automation

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

#### NEW QUESTION # 16

An architect is commissioned to design a lodge in a location where the water service is insufficient for a sprinkler system. The architect plans to maximize sight lines by using exposed columns and roof structure in the primary assembly space.

Which of the following systems meet these requirements? Check the three that apply.

- A. 6" precast concrete columns, beams, and 8" precast concrete planks
- B. 6" diameter steel columns with open web girders and joists
- C. 6 x 6 cedar columns with 6" light gauge "z" purlins and fire retardant treated plywood decking
- D. 8" cast-in-place concrete columns and beams and 8" precast planks
- E. 3" light gauge steel columns with 6" "z" purlins and 28 gauge corrugated metal decking
- F. 12" diameter peeled log columns with glulam beams and 4" wood decking

**Answer: B,C,F**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When designing in locations with insufficient water service to support sprinkler systems, architects must rely on inherently fire-resistant materials or assemblies that can provide passive fire protection while also meeting the aesthetic and structural needs of the space. This is especially critical in assembly spaces where sight lines are important and exposed structure is desired.

\* Option A: Steel columns with open web girders and joists are acceptable because steel does not combust and can be designed for fire resistance either by inherent fireproofing or applied fireproofing.

The open-web design also supports maximizing sight lines by minimizing visual obstruction.

\* Option B: Large peeled log columns with glulam beams and wood decking are commonly used in lodge designs. Although wood is combustible, large timber members like glulam beams char on the surface and maintain structural capacity for a predictable duration under fire conditions, which often meets code for exposed timber in assembly spaces without sprinkler systems.

\* Option F: Cedar columns with light gauge steel purlins and fire retardant treated plywood decking can be suitable where fire retardant treatment extends the fire resistance of wood members. This is an accepted strategy in areas lacking sprinkler protection, particularly for visual warmth and compatibility with lodge aesthetics.

\* Options C and D: Concrete columns and beams are noncombustible but tend to be bulky and can obstruct sight lines.

Additionally, precast planks with concrete may not fit the desired exposed wood or open aesthetic.

\* Option E: Light gauge steel columns with corrugated metal decking are lightweight and minimal, but 3" steel columns are structurally insufficient for large assembly spaces and metal decking without proper fireproofing is less common in exposed wood aesthetic projects.

These design choices align with NCARB's Project Planning & Design content regarding material selection for fire resistance, visual requirements, and assembly occupancy considerations. Specifically, the guidelines recommend using heavy timber, fire-retardant-treated wood, or protected steel systems where sprinkler systems are not feasible to comply with fire and life safety codes while addressing architectural intent.

References:

ARE 5.0 PPD Content Outline: Building Systems, Materials, and Assemblies (NCARB) The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations NCARB ARE 5.0 Guidelines: Fire Protection and Material Performance in Assembly Spaces

#### **NEW QUESTION # 17**

The zoning approval process may involve obtaining which of the following? Check the four that apply.

- A. Variance
- B. Special exception
- C. Grading permit
- D. Undue hardship exemption
- E. Conditional use
- F. Building permit

**Answer: A,B,C,E**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Zoning approval can involve:

Variance (A): Permission to deviate from zoning requirements.

Grading permit (C): Approves site grading related to zoning.

Conditional use (D): Allows use under specific conditions.

Special exception (E): Permits uses not normally allowed but granted under certain circumstances.

Building permits (B) are separate from zoning.

Undue hardship exemption (F) is legal but not typically a zoning approval term.

References:

ARE 5.0 PPD - Codes and Regulations, Zoning

The Architect's Handbook of Professional Practice, 15th Edition - Land Use Controls

#### **NEW QUESTION # 18**

What is the primary benefit of underground detention with controlled discharge to a waterway?

- A. Ensuring the protection of groundwater purity
- **B. Maximizing the developable site area**
- C. Minimizing site improvement costs
- D. Providing a new wetlands environment

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Underground detention systems store stormwater beneath the surface, reducing runoff rates by releasing water slowly to waterways. The primary benefit is that they minimize surface land use for detention basins, thereby maximizing the developable site area available for buildings and landscaping.

Groundwater purity protection (A) is managed by treatment practices but is not the primary benefit of detention.

Site improvement costs (C) may increase due to system complexity.

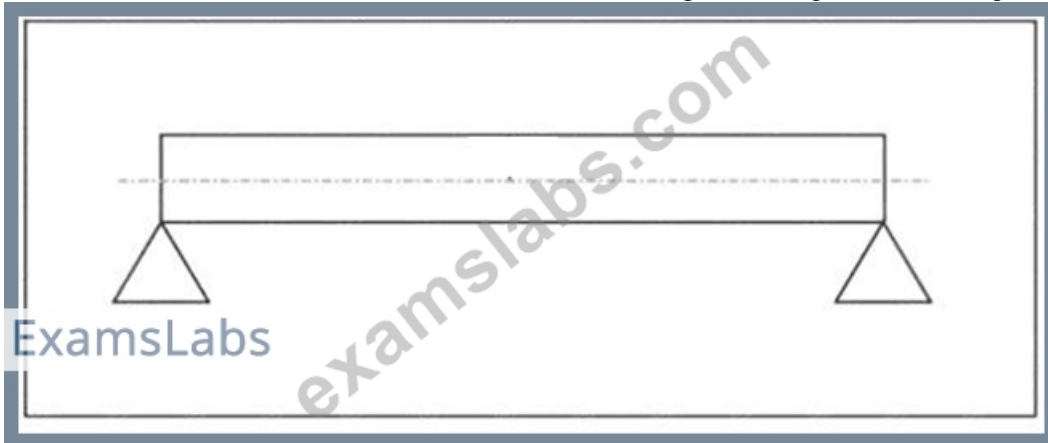
Creating wetlands (D) relates to retention basins, not underground detention.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Stormwater Management The Architect's Handbook of Professional Practice, 15th Edition - Site Planning and Drainage

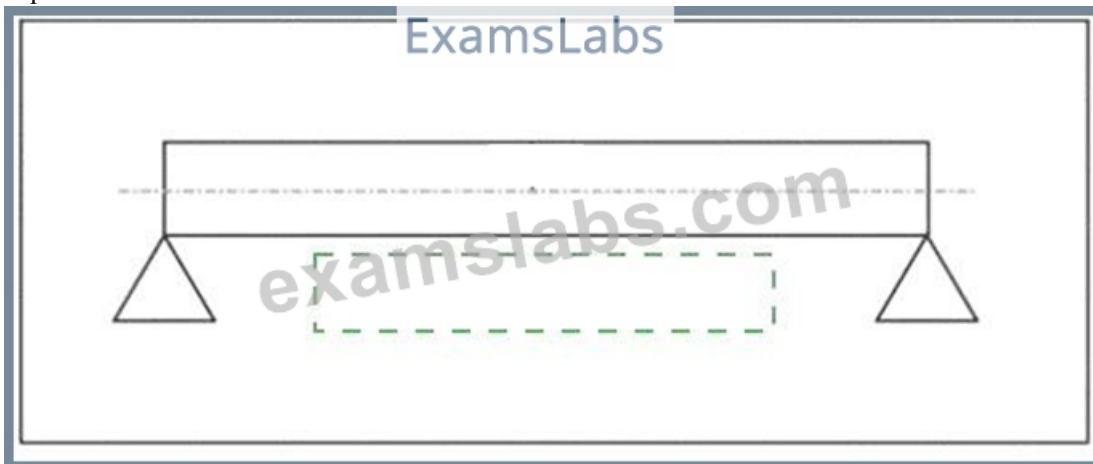
**NEW QUESTION # 19**

Click on the area of the concrete beam elevation where steel reinforcing will most improve the beam's span capability.



**Answer:**

Explanation:





### NEW QUESTION # 20

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