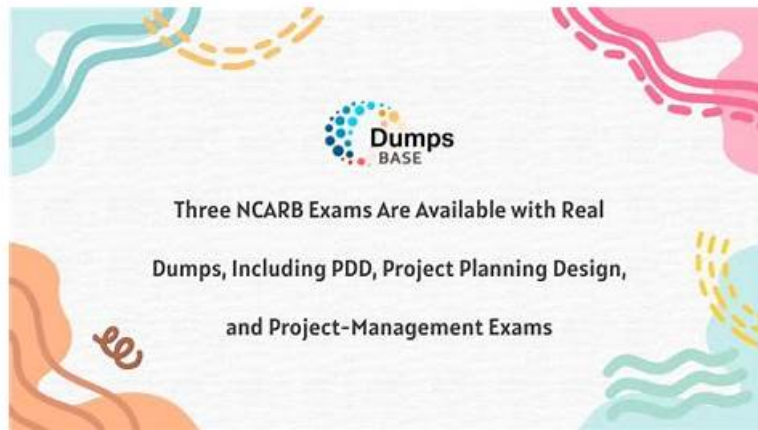


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### NCARB Project-Planning-Design Exam Syllabus Topics:

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>Project Integration of Program &amp; Systems:</b> 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>
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>• <b>Environmental Conditions &amp; Context:</b> 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>• <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>

## NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q58-Q63):

### NEW QUESTION # 58

A one-story residence in a dry climate with cold winter nights is designed with an unconditioned dirt floor crawlspace utilizing underfloor plumbing and HVAC ductwork. The owner is interested in using a concrete slab-on-grade floor instead of the pier-and-beam concrete floor over an open crawlspace as originally designed.

What are the impacts of changing the design to a slab-on-grade floor system? Check the two that apply.

- A. It will limit future plumbing flexibility.
- B. It will limit the types of flooring finishes available.
- C. It will have warmer floors in the evenings.
- D. It will allow for better moisture control.
- E. It will allow for HVAC ductwork installation.
- F. It will have more steel reinforcing.

**Answer: A,C**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Changing from a pier-and-beam system with an open crawlspace to a slab-on-grade floor has several impacts:

Warmer floors in the evenings (A): Concrete slab-on-grade floors have high thermal mass, which can absorb heat during the day and release it slowly, resulting in warmer floors at night, particularly beneficial in cold climates.

Limited future plumbing flexibility (C): Plumbing embedded in or beneath slabs is difficult to access or modify after construction, unlike crawlspaces that provide easier access to underfloor plumbing for repairs or modifications.

More steel reinforcing (B): While slabs do require reinforcement, this is often comparable or less than the framing required for pier-and-beam floors, so this is not necessarily an impact.

Flooring finishes (D): Slab floors can accommodate many finishes; thus, limitations are generally minimal.

Better moisture control (E): Slabs require moisture barriers and careful detailing to control moisture; crawlspaces can sometimes be easier to ventilate but may allow moisture intrusion if not properly designed.

HVAC ductwork installation (F): Crawlspaces allow ducts to be located under the floor; slabs typically require ducts to be placed above or within conditioned spaces.

Thus, the most significant impacts are warmer floors and reduced plumbing flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Foundations and Floors

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

### NEW QUESTION # 59

An architect is designing a mixed-use building and must provide fire separation between the various use types. Which properties must be considered to meet the fire separation requirements? Check the three that apply.

- A. Wall to structure connection
- B. Length of exit corridor
- C. Wall assembly materials
- D. Occupancy type
- E. Orientation of building
- F. Air changes per hour

**Answer: A,C,D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To meet fire separation requirements, the following must be considered:

Occupancy type (B): Different uses have different fire hazard classifications influencing separation.

Wall assembly materials (D): Materials define fire resistance ratings.

Wall to structure connection (A): Proper connection maintains fire separation integrity.

Air changes (C) relate to ventilation, not separation.

Exit corridor length (E) and building orientation (F) affect egress and solar exposure, not fire separation.

References:

ARE 5.0 PPD - Codes and Regulations, Fire Separation

The Architect's Handbook of Professional Practice, 15th Edition - Fire-Resistive Construction

#### NEW QUESTION # 60

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

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

**Answer: C**

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

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#### NEW QUESTION # 61

Which of the following strategies is most appropriate for a new shopping center to be constructed on a nearly flat site flowing into a municipal subsurface storm-drainage system that is at capacity during a 5-year storm?

- A. Conducting all site drainage along the curbs of service streets
- B. Sectioning, sizing, and pitching drainage ways, culverts, and basins to reduce runoff time
- C. Extending the storm sewers to catch basins in all roads and drives in the development
- D. Grading roads, locating buildings, and sizing culverts to create retention basins

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When the municipal storm-drain system is at capacity during frequent storms, site design must incorporate on-site stormwater management to reduce runoff and delay peak flows.

Option B is the most effective strategy: grading the site and positioning buildings and infrastructure to create retention basins allows water to be temporarily stored on site, reducing the volume and rate of runoff entering the municipal system. This also aids in groundwater recharge and helps comply with stormwater management regulations.

Extending storm sewers (A) without capacity improvements only increases burden on an already overloaded system.

Reducing runoff time (C) can exacerbate peak flows by quickly directing water to the storm drains.

Conducting drainage along curbs (D) is standard but does not solve capacity issues if the municipal system is overloaded.

Thus, on-site retention and detention through basin creation is preferred.

References:

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

### NEW QUESTION # 62

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

**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 # 63

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