

Project-Planning-Design Test Score Report | Questions Project-Planning-Design Pdf

CAREERWILL NEET DIVISION

TEST PLAN (Achiever Online 2.0)

TEST PLAN	Day	Date
Minor Test-1	Sunday	07-Sep-25
Minor Test-2	Sunday	28-Sep-25
Minor Test-3	Friday	17-Oct-25
Semi Major-01	Sunday	02-Nov-25
Minor Test-4	Sunday	23-Nov-25
Minor Test-5	Sunday	14-Dec-25
Semi Major-02	Sunday	04-Jan-26
Minor Test-6	Sunday	25-Jan-26
Minor Test-7	Sunday	15-Feb-26
Minor Test-8	Sunday	01-Mar-26

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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 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.
Topic 2	<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.
Topic 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.
Topic 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.
Topic 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.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q97-Q102):

NEW QUESTION # 97

Which statement accurately describes the use of an electrical conduit?

- A. Aluminum conduit is a cost-effective alternative to steel conduit because it can be used in all locations steel conduit is used.
- B. A separate ground wire is required to avoid a shock hazard when using steel conduit.
- **C. Steel conduit is used to support and protect the conductors.**
- D. Rigid polyvinyl chloride conduit provides a system ground path.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Steel conduit is primarily used to support and protect electrical conductors from physical damage and to provide mechanical protection. It can also serve as an equipment grounding conductor in many applications, but a separate ground wire is sometimes still required depending on code and installation specifics.

Option A is incorrect because steel conduit often acts as the grounding path, so a separate ground wire is not always required.

Aluminum conduit (B) is not commonly used in all the same locations as steel, especially due to corrosion concerns.

PVC conduit (C) is nonmetallic and does not provide a grounding path; a separate ground wire is needed.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems

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

NEW QUESTION # 98

Which strategy enhances passive solar residential design in the northern hemisphere?

- A. Reducing heat storage capacity
- B. Installing an electric baseboard heating system

- C. Eliminating insulated glazing along the northern walls
- D. Locating deciduous trees along the south side of the house

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Passive solar design in the northern hemisphere relies on maximizing solar gain during the winter while minimizing overheating during summer.

Deciduous trees located on the south side provide shade during the summer (when they have leaves), reducing cooling loads, and allow sunlight to penetrate in the winter after leaf fall, enhancing solar heat gain. This seasonal shading improves comfort and energy efficiency.

Eliminating insulated glazing on the north walls (B) increases heat loss, which is undesirable in cold climates.

Reducing heat storage capacity (C) lowers the building's thermal mass, decreasing its ability to moderate temperature swings, which is counterproductive.

Installing electric baseboard heating (D) is a mechanical solution and does not enhance passive solar design.

Therefore, option A is the best strategy consistent with passive solar principles.

References:

ARE 5.0 PPD - Environmental Conditions and Context, Passive Solar Design The Architect's Handbook of Professional Practice, 15th Edition - Sustainable Design Strategies

NEW QUESTION # 99

An existing building containing the maximum allowable area may be extended horizontally provided the extension is separated from the existing building by which one of the following?

- A. An outside space separation of at least 10 ft
- B. A fire-rated shutter
- C. A water curtain
- D. A fire wall

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to the International Building Code (IBC) and reflected in the NCARB Project Planning & Design guidelines, when an existing building has reached the maximum allowable floor area, horizontal extensions (additions) can be made only if there is a proper separation between the existing structure and the new addition. This separation must prevent fire spread and protect structural integrity.

A fire wall is a continuous, fire-resistive barrier designed to prevent the spread of fire between adjacent buildings or different parts of a building. It must have structural stability under fire conditions and can allow the two portions of the building to be treated as separate structures for area calculations, effectively permitting expansion beyond the allowable area of a single building.

Fire-rated shutters (Option A) are movable devices used for compartmentation but are not intended for permanent separation of building areas.

Outside space separation of at least 10 ft (Option B) is generally insufficient for full area separation unless it meets specific fire-resistance rating and distance requirements that typically exceed 10 feet.

Water curtains (Option D) are active fire protection devices but are not substitutes for passive separations required by code to extend allowable building area.

Thus, the correct method to extend a building beyond its maximum allowable area is to separate it with a fire wall, as per NCARB and IBC provisions.

References:

ARE 5.0 PPD - Codes and Regulations, Building Area and Occupancy Separation IBC 2018, Chapter 7: Fire and Smoke Protection Features The Architect's Handbook of Professional Practice, 15th Edition - Fire Protection

NEW QUESTION # 100

The rehabilitation of a warehouse for a commercial occupancy has a heavy anticipated electrical distribution load and it is expected that the current of the electrical system will be expanded in the near future.

The least expensive and most flexible electrical distribution system would be comprised of which one of the following?

- A. Paralleled sets of copper wire in conduits

- B. Paralleled sets of aluminum wire in conduits
- C. Single large aluminum or copper conductor
- **D. Aluminum or copper bus duct with tap boxes**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Bus duct systems with tap boxes offer modular, flexible electrical distribution capable of handling high loads and allowing easy future expansions with minimal disruption and cost.

Paralleled wires (A, B) increase complexity and are less flexible.

Single large conductors (C) are limited in expansion.

Bus ducts optimize installation speed, scalability, and cost in commercial building retrofits.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems

The Architect's Handbook of Professional Practice, 15th Edition - Electrical Distribution

NEW QUESTION # 101

Refer to the exhibit (four building sections with fan locations (F) and boiler/chiller equipment (*)).

Which of the fan locations (F) indicated for a four-story office building would allow the most efficient provision for weekend cooling?

- A. A
- B. D
- C. B
- **D. C**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

For efficient weekend cooling in a multi-story office building, placing fan equipment centrally between the conditioned spaces reduces duct lengths, allows better zoning, and minimizes energy use.

In option C, fans are located mid-building between office floors and other uses, allowing for more efficient distribution and individual zone control.

Other options (A, B, D) place fans either all at one end or stacked at one side, increasing duct runs and reducing flexibility in zoning, which can lead to inefficiency during reduced loads like weekends.

NCARB PPD guidelines emphasize mechanical system design that optimizes equipment placement to balance energy efficiency, occupant comfort, and system flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, HVAC System Design

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

NEW QUESTION # 102

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