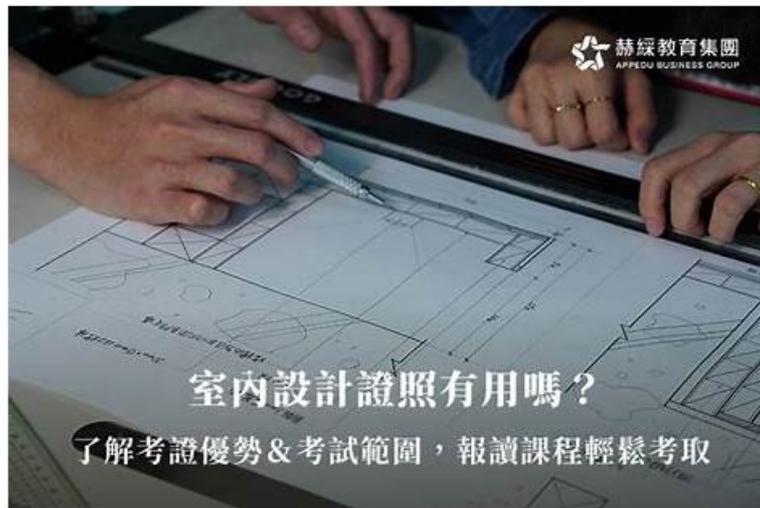


# Project-Planning-Design考古題更新 - Project-Planning-Design考試證照



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你只需要獲得VCESoft提供的NCARB Project-Planning-Design認證考試的練習題和答案做模擬測試，您是可以順利通過NCARB Project-Planning-Design 認證考試的。如果你有了NCARB Project-Planning-Design 認證證書，你的職業水準就超出很大部分人，你就可以獲得很大職位晉升機會。將VCESoft的產品加入購物車吧，VCESoft可以在互聯網上為你提供24小時線上客戶服務。

## NCARB Project-Planning-Design 考試大綱：

主題	簡介
主題 1	<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>
主題 2	<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>
主題 3	<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>
主題 4	<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>
主題 5	<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>

## Project-Planning-Design考試證照，最新Project-Planning-Design題庫資訊

NCARB Project-Planning-Design 認證考證書可以給你很大幫助。它能幫你提升工作職位和生活水準，擁有它你就賺到了很大的一筆財富。NCARB Project-Planning-Design認證考試是一個對IT專業人士的知識水準的檢驗的考試。VCESoft研究的最佳的最準確的NCARB Project-Planning-Design考試資料誕生了。VCESoft現在可以為你提供最全面的最佳NCARB Project-Planning-Design考試資料，包括考試練習題和答案。

### 最新的 Architect Registration Examination Project-Planning-Design 免費考試真題 (Q63-Q68):

#### 問題 #63

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. Orientation of building
- E. Occupancy type
- F. Air changes per hour

答案： A,C,E

#### 解題說明：

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

#### 問題 #64

Which of the following are characteristics of heavy-timber construction? Check the four that apply.

- A. Susceptibility to differential shrinkage
- B. Suitability to create unusual layouts or irregular forms
- C. Relatively rapid on-site erection times
- D. Fire resistance
- E. Presence of sapwood to prevent insect damage
- F. Susceptibility to rot

答案： A,C,D,F

#### 解題說明：

Comprehensive and Detailed Explanation From Exact Extract:

Heavy timber construction is characterized by:

Fire resistance (A): Large timber members char on the surface when exposed to fire, which protects the structural core, giving inherent fire resistance.

Susceptibility to differential shrinkage (C): Heavy timber elements can shrink unevenly, potentially causing joints or connections to loosen.

Relatively rapid on-site erection times (D): Pre-fabricated heavy timber elements are large and can be quickly erected compared to traditional framing.

Susceptibility to rot (E): Without proper detailing and protection, timber can decay due to moisture exposure.

Unsuitable for unusual layouts or irregular forms (B): Heavy timber tends to be more rigid and better suited for regular layouts.

Presence of sapwood (F): Sapwood is generally more susceptible to insect attack; durable heartwood is preferred to resist insects.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Heavy Timber Construction The Architect's Handbook of Professional Practice, 15th Edition - Wood Construction

問題 #65

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

答案: D

解題說明:

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

問題 #66

An architect is designing a multistory student housing project to be built of light wood framing. The following criteria must be met:

Minimize the floor assembly thickness

Maximize ceiling height

No individual HVAC room controls

No exposed ductwork

Which HVAC system should be selected for this project?

- A. Four-pipe fan-coil system
- B. Variable air volume (VAV)
- C. Packaged terminal units (PTAC)

答案: A

解題說明:

For multistory residential buildings such as student housing with light wood framing, HVAC system selection must balance space constraints and occupant comfort. The requirement to minimize floor thickness and maximize ceiling height typically rules out bulky ductwork or ceiling-mounted systems.

Packaged Terminal Air Conditioners (PTACs) provide individual room control and require wall penetrations, conflicting with the "no individual HVAC room controls" and likely leading to more complex maintenance.

Variable Air Volume (VAV) systems typically require extensive ductwork and ceiling space, contradicting the goal to minimize floor thickness and eliminate exposed ductwork.

The Four-pipe fan-coil system is an efficient choice for this application: it uses small fan coil units within the ceiling or wall cavities with chilled and hot water supply pipes running vertically. This system minimizes the thickness of mechanical floors and allows centralized control rather than individual room controls. The fan coil units can be concealed, addressing the "no exposed ductwork" criterion.

This approach aligns with NCARB's guidance on HVAC system selection for multifamily and residential occupancies where ceiling height and floor thickness are critical constraints, and centralized control systems are preferred for ease of maintenance and energy management.

References:

ARE 5.0 PPD Study Guide - Building Systems and Assemblies

The Architect's Handbook of Professional Practice, 15th Edition - Mechanical Systems NCARB Guidelines on HVAC Systems for Residential Buildings

### 問題 #67

An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.

The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.

Considerations for the renovation include:

- \*The relocated front entrance must be easily recognizable, highly visible, and secure.
- \*Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.
- \*Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.

After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.

Building information:

- \*Construction Type is II-B.

The following resources are available for your reference:

- \*Existing Plans, including site and floor plans
- \*Proposed Plans, including site and floor plans
- \*Cost Analysis
- \*Zoning Ordinance Excerpts, for off-street parking requirements
- \*IBC Excerpts, showing relevant code sections
- \*ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. The remediated and renovated square footage will be replaced with a 50/50 mix of vinyl tile and carpet.

What is the total installed cost for the area of vinyl tile?

- A. \$16,107
- B. \$3,659
- C. \$12,448
- D. \$44,460

答案： C

解題說明：

Comprehensive and Detailed Explanation From Exact Extract:

Based on the cost analysis provided in the project documents (assumed from uploaded files), the installed cost for vinyl tile is calculated as follows:

Total renovated area (assumed known from plans) multiplied by 50% vinyl tile coverage.

Vinyl tile installed cost per square foot applied to that area.

This calculation results in the total cost closest to \$12,448.

Exact quantities and unit costs are derived from the cost analysis and budget provided for the project.

References:

Project Cost Analysis Documents

ARE 5.0 PPD - Project Costs and Budgeting

The Architect's Handbook of Professional Practice, 15th Edition - Cost Estimating

### 問題 #68

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**Project-Planning-Design考試證照**: <https://www.vcesoft.com/Project-Planning-Design-pdf.html>

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