

# PDD Practice Exam Pdf & Regualer PDD Update

## PDD Practice Exam 1 Questions & Answers 2024/2025

Conduction - ANSWERS- the transfer of heat from the warmer to the cooler particles of a medium or of 2 bodies in direct contact, occurring without perceptible displacement of the particles themselves

Convection - ANSWERS- the transfer of heat by the circulatory motion of the heated parts of a liquid or gas owing to a variation in density and the action of gravity. In other words, the body gives off heat to the surrounding cooler air

- a large differential between air and skin temperature and increased air motion induce more heat transmission by \_\_\_\_\_

Radiation - ANSWERS- the process by which heat energy in the form of electromagnetic waves is emitted by a warm body, transmitted through an intervening space, and absorbed by a cooler body. No air motion is required for the transfer of heat

- Light colors reflect while dark colors absorb heat; poor reflectors make good radiators

Evaporation - ANSWERS- heat is required for the \_\_\_\_\_ process of converting body moisture into a vapor

- heat loss by evaporation increases with air motion

- \_\_\_\_\_ cooling is especially beneficial when high air temperatures, humidity, and activity levels exist

Relative Humidity (RH) - ANSWERS- \_\_\_\_\_ is the ratio of the amount of water vapor actually present in the air to the max amount that the air could hold at the same temperature, expressed as a %

- The higher the \_\_\_\_\_ of a space, the lower the air temperature should be

- \_\_\_\_\_ is more critical at high temperatures than within the normal temperature range

Air Motion (V) - ANSWERS- \_\_\_\_\_ increases loss by convection and evaporation

- The cooler the moving air stream is, relative to the room air temperature, the less velocity it should have

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## NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Project Manual &amp; Specifications: This section of the exam measures the skills of Specifications Writers and emphasizes the importance of developing documentation that goes beyond drawings. Candidates must understand how to identify and prioritize elements needed to prepare, maintain, and refine both the project manual and project specifications. It also assesses the ability to align and coordinate these specifications with the construction documents to ensure consistency and accuracy.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Construction Cost: This section of the exam measures the skills of Construction Managers and focuses on the financial side of project execution. It evaluates the ability to analyze construction cost estimates to confirm that they align with project design intent and budgetary constraints. Although this is the smallest section, it is critical for ensuring projects remain feasible and economically viable.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Construction Documentation: This section of the exam measures skills of Project Architects and addresses the creation and management of project documentation. Candidates are expected to demonstrate knowledge of documenting building design and site features, preparing detailed architectural drawings, and applying industry standards to produce a coordinated set of construction documents. The section also includes understanding how project changes impact documentation and how to communicate these updates effectively to both the design team and the client.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Integration of Building Materials &amp; Systems: This section of the exam measures the skills of Architectural Designers and focuses on the ability to resolve and integrate various building systems into cohesive project goals. It covers analyzing architectural systems and technologies, determining the size of structural, mechanical, electrical, and plumbing systems, and incorporating specialty systems such as acoustics, lighting, security, and communications. It also evaluates the ability to detail how multiple building systems work together and to coordinate across disciplines to achieve a unified design.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>Codes &amp; Regulations: This section of the exam measures skills of Building Code Specialists and examines how codes and regulations apply at a detailed level during documentation. Candidates are expected to demonstrate knowledge of compliance with the International Building Code (IBC) as well as other specialty regulations, as well as how to interpret and apply these standards to ensure design and documentation meet legal and safety requirements.</li></ul>

## NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q24-Q29):

### NEW QUESTION # 24

During an analysis of an existing sanitary sewer crossing a proposed building site, it was determined that the outflow invert at one manhole was 120 feet and the inflow invert at the next manhole, which is 200 feet downstream, was 117 feet.

What is the percentage of slope between the two manholes?

- A. 3%
- B. 2%
- C. 1.5%

### Answer: C

Explanation:

The slope between two manholes is calculated by the formula:

$$\text{slope} = \frac{\text{elevation difference}}{\text{horizontal distance}} \times 100\%$$

Given:

- Outflow invert = 120 ft
- Inflow invert = 117 ft
- Horizontal distance = 200 ft

Calculate elevation difference:

$$120 - 117 = 3 \text{ ft}$$

Calculate slope:

$$\frac{3 \text{ ft}}{200 \text{ ft}} \times 1 \downarrow \% = 1.5\%$$

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Reference:

NCARB ARE 5.0 Review Manual, Site Design and Civil Engineering chapter  
Sanitary sewer design principles and slope requirements

### NEW QUESTION # 25

An architect has a contract with a local school district to redesign a school reception office to ensure a more efficient interaction between office staff, students, and parents. The following instructions are given to the architect:

- \* The renovation scope is limited to the footprint only of the existing reception office.
- \* Additional staff is not proposed for the renovated area.
- \* The existing ceiling and associated fixtures will be protected from damage during construction.
- \* The construction of the renovation must occur during the 10-week summer break.

Which of the following series drawings should be included in the documents set?

- A. Electrical
- B. Plumbing
- C. Mechanical
- D. Structural

#### Answer: A

Explanation:

The scope involves interior renovation of an existing school reception office, limited to the footprint and protecting existing ceiling and fixtures. Additional staff is not proposed, and construction is during a defined 10-week summer break.

Plumbing is unlikely to require new or modified systems unless specified; not mentioned here.

Structural changes are not indicated since footprint remains same and no structural modifications are noted.

Mechanical changes would typically be required if HVAC or ventilation systems are altered, but the ceiling and fixtures (likely including diffusers) must be protected and are presumably left unchanged.

Electrical modifications are common in interior renovations to accommodate lighting, power outlets, communication systems, and potentially security or reception technology updates.

Thus, electrical drawings should be included to cover these updates.

Reference:

NCARB ARE 5.0 Review Manual, Project Development and Documentation, Construction Documents chapter Typical interior renovation scopes often require electrical updates to accommodate new equipment and code compliance.

### NEW QUESTION # 26

A significant advantage of glass-fiber-reinforced concrete panels over architectural precast concrete panels is which one of the following?

- A. Increased strength
- B. Decreased fabrication time
- C. Increased quality control
- D. Decreased weight

**Answer: D**

Explanation:

Glass-fiber-reinforced concrete (GFRC) panels offer several advantages compared to architectural precast concrete panels: GFRC panels are lighter due to their thin profile and use of fiber reinforcement, reducing structural load and facilitating installation. Precast concrete panels are heavier and thicker.

Strength of GFRC is adequate but typically not higher than traditional precast.

Quality control and fabrication time are comparable or vary depending on the project and fabrication process.

Therefore, the significant advantage is decreased weight.

**NEW QUESTION # 27**

Which document is the most appropriate location for specifying the finish material for casework?

- A. General Conditions
- **B. Project Manual - Division 06**
- C. Construction Drawings
- D. Outline Specifications

**Answer: B**

Explanation:

Division 06 (Wood, Plastics, and Composites) of the Project Manual contains detailed specifications for finish carpentry and casework materials. This aligns with ARE Objective 2.1: Evaluate project manual sections for technical accuracy.

**NEW QUESTION # 28**

A wall separating a distillery and a taproom must meet which of the following requirements based on a flammable liquid presence?

- A. 3-hour fire barrier
- **B. 2-hour fire wall**
- C. 1-hour smoke partition
- D. 1-hour fire barrier

**Answer: B**

Explanation:

Per IBC Chapter 6 and Chapter 7, distillation involving flammable liquids requires a 2-hour fire-resistance- rated fire wall between H-occupancy (hazardous) and assembly use (A-2). Objective 1.3 of the PDD Handbook emphasizes understanding of life safety code implications in space planning.

**NEW QUESTION # 29**

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