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## PRACTICE QUESTIONS

Association of Boards of Certification

# DLPT226H

WPI Water Distribution Operator Class 1

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

# Before you begin

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## What this is

9 practice questions for Association of Boards of Certification **DLPT226H**, each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

## If something looks wrong

Send us three things and we will check it:

- the exam code, **DLPT226H**
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

**QUESTION 1**

SINGLE CHOICE

What is the minimum free chlorine residual typically required to be maintained at the extreme ends of a distribution system?

- ☒ **A** 0.2 mg/L
- ☐ B 1.0 mg/L
- ☐ C 2.0 mg/L
- ☐ D 4.0 mg/L

**ANSWER A**

**WHY** Most state regulations, consistent with USEPA guidance, require a minimum detectable free chlorine residual of 0.2 mg/L at the extremities of the distribution system to ensure continued disinfection protection.

**QUESTION 2**

SINGLE CHOICE

Why is it important to maintain turnover (cycling) of water in a storage tank rather than allowing water to remain stagnant?

- ☐ A To reduce the electrical cost of pumping
- ☒ **B To prevent loss of disinfectant residual and reduce water age**
- ☐ C To increase the tank's structural strength
- ☐ D To reduce the need for tank painting

**ANSWER B**

**WHY** Stagnant water in storage tanks loses disinfectant residual over time and increases water age, which can lead to bacterial regrowth, taste and odor problems, and nitrification issues in chloraminated systems.

**QUESTION 3** SINGLE CHOICE

Which pipe material is most commonly used for new water distribution mains due to its resistance to corrosion, light weight, and ease of installation?

- ☐ A Cast iron
- ☒ B Polyvinyl chloride (PVC)
- ☐ C Asbestos cement
- ☐ D Galvanized steel

**ANSWER B**

**WHY** PVC pipe is widely used in modern distribution systems because it resists corrosion, is lightweight, easy to install, and cost-effective compared to metallic pipe materials.

**QUESTION 4** SINGLE CHOICE

What is the minimum working pressure that most state regulations require a distribution system to maintain under normal operating conditions?

- ☐ A 10 psi
- ☒ B 20 psi
- ☐ C 35 psi
- ☐ D 60 psi

**ANSWER B**

**WHY** Most state drinking water regulations require a minimum of 20 psi throughout the distribution system at all times, including during fire flow, to prevent backsiphonage and contamination.

**QUESTION 5** SINGLE CHOICE

Which backflow prevention assembly provides protection against both backpressure and backsiphonage and is approved for high health hazard applications?

- ☐ A Air gap
- ☐ B Double check valve assembly
- ☒ C Reduced pressure zone (RPZ) assembly
- ☐ D Atmospheric vacuum breaker

**ANSWER C**

**WHY** The reduced pressure zone (RPZ) assembly is designed to protect against both backpressure and backsiphonage and is approved for high hazard cross connections, using a relief valve to discharge if pressure differentials fail.

**QUESTION 6** TRUE FALSE

Distribution system valves should be periodically exercised (opened and closed) to ensure they operate properly and to prevent them from becoming frozen in position.

- ☒ A True
- ☐ B False

**ANSWER A**

**WHY** Regular valve exercising programs are a standard maintenance practice that keeps valves operable, identifies valves needing repair, and prevents them from seizing due to mineral buildup or corrosion.

**QUESTION 7**

SINGLE CHOICE

What is the primary purpose of routine total coliform sampling in a distribution system?

- ☐ A To measure the hardness of the water
- ☒ B To indicate the possible presence of pathogenic contamination
- ☐ C To determine the corrosivity of the water
- ☐ D To measure dissolved oxygen levels

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**ANSWER B**

**WHY** Total coliform bacteria serve as indicator organisms; their presence suggests a pathway for contamination and the possible presence of disease-causing organisms in the distribution system.

**QUESTION 8**

SINGLE CHOICE

What is the primary purpose of unidirectional flushing of water mains?

- ☐ A To increase water pressure throughout the system
- ☒ B To remove sediment and biofilm by maximizing scouring velocity in one direction
- ☐ C To reduce the chlorine demand of the source water
- ☐ D To calibrate distribution system flow meters

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**ANSWER B**

**WHY** Unidirectional flushing closes valves to direct water through a single path, creating high scouring velocities that effectively remove sediment, tuberculation, and biofilm from main interiors.

**QUESTION 9**

MULTIPLE CHOICE

Which of the following are required precautions before an operator enters a confined space such as a valve vault or wet well? (Choose two.)

- ☒ **A** Test the atmosphere for oxygen levels, toxic gases, and flammability
- ☒ **B** Have a trained attendant stationed outside the space
- ☐ **C** Enter alone quickly to minimize exposure time
- ☐ **D** Skip ventilation if the space appears dry

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**ANSWER** A • B

**WHY** OSHA confined space entry procedures require atmospheric testing before and during entry and a trained attendant outside the space to monitor conditions and summon help if needed.