

CERTIFIED POOL/SPA OPERATOR® (CPO®) CERTIFICATION EXAMINATION FORM B – METRIC



For Instructor Use:
Student Name: _____
Instructor Initials: _____

Points Possible: **60** Score: _____
Points Missed: _____ Points Needed: **45**

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ANSWERING OR EXAM SHOULD BE DONE IN THE MATERIAL PROVIDED IN TEXTBOOK AND SEE LOCAL OR STATE CODES

NOTES:

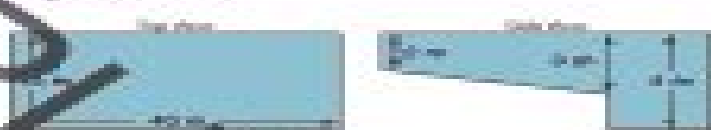
1. Calculations are permitted.
2. Show calculations for work.
3. Complete as many of the questions as you can in the given time.
4. Answer the questions you know first.

All Problems: Display the letter of the one correct answer in the margin. Only one answer is correct (1 point each, 60 total points)

(A) (B) (C) (D)

1. You use the operator for a pool that is 10 meters long and 15 meters wide. The pool is divided by a 2-meter wide swimming area and a diving well. The swimming area is 20 meters long with a depth range of 2 meters to 3 meters and a constant slope. The diving well is 10 meters long with a constant depth of 4 meters. What is the volume in liters for this facility?
- (A) 1,200,000 liters (B) 1,000,000 liters
(C) 1,800,000 liters (D) 1,200,000 liters

Diagram for Problem 1:



(A) (B) (C) (D)

2. What is the flow rate in liters per minute (lpm) for a pool with 300,000 liters of water and a turnover rate of 7 hours?
- (A) 757 lpm (B) 710 lpm (C) 1,211 lpm (D) 848 lpm

(A) (B) (C) (D)

3. Using a high rate filter with a flow rate of 488 gpm per square meter and a flow rate of 2,500 gpm, what size filter is necessary to achieve water clarity?
- (A) 4 m² (B) 2.5 m² (C) 4.5 m² (D) 4.25 m²

(A) (B) (C) (D)

4. If you have sand flow your filter returning to the pool through the laterals, what is the likely cause?
- (A) Sand bed blocked (B) Broken under-drain laterals (C) Blocked filter laterals (D) Too frequent or a backwash cycle

(A) (B) (C) (D)

5. What is the turnover rate in minutes for a spa that has 22,000 liters of water and a flow rate of 350 liters per minute?
- (A) 40 minutes (B) 24 minutes (C) 38 minutes (D) 18 minutes

(A) (B) (C) (D)

6. There is a chemical accident in 765,850 liter pool. According to the CDC, the first step you should take to correctly handle this incident is:
- (A) Remove all the swimmers from the pool (B) Remove the equipment from the pool
(C) Backwash the filter (D) Add 30 mg/L of sodium bicarbonate

(A) (B) (C) (D)

7. Emergency Response Plans must include all of the following EXCEPT:
- (A) Drilling and closing the door (B) Staff training requirements
(C) Alarm signals and their meaning (D) Rules and procedures for staff member response in an emergency

(A) (B) (C) (D)

8. Oxidation Reduction Potential testing (ORP) is measured in:
- (A) Milligrams per liter (mg/L) (B) Millivolts (mV) (C) Liters per minute (lpm) (D) Free available chlorine (FAC)

National Swimming Pool Foundation Test Answers

F Rizvi



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