

FIRE ACADEMY

Candidate Preparation

Questions Pertaining to Probationary Firefighter Reading Assignments (Cycles 1-26)

Cycle 15

Fill in the blank with the appropriate choice

Chapter 12: Standpipe 2 ½" line

- 1) When supplying water to a standpipe system where high-pressure pumping is required, which size hose should be used?
 - A) 4 ½" hose
 - B) 3 ½" hose
 - C) 3" hose
 - D) 2 ½" hose

- 2) A FDC, formerly known as Siamese connections, painted yellow indicates what type of system?
 - A) Standpipe
 - B) Sprinkler
 - C) Non-automatic sprinkler
 - D) Combination

- 3) A FDC, formerly known as Siamese connections, with aluminum caps indicates what type of system?
 - A) Standpipe
 - B) Sprinkler
 - C) Non-automatic sprinkler
 - D) Combination

- 4) ECC's can encounter a wide range of difficulties when connecting hose to a FDC. This can include defective or damaged threads, frozen female swivels or swivel that will not turn, caps that cannot be removed, broken clapper valves, or outlets stuffed with debris. One method is to twist the supply hose _____, insert the male end, then twist the male end to _____ into one of the female swivels of the FDC
 - A) 4-5 turns to the left, the right (clockwise)
 - B) 4-5 turns to the right, the left (counter clockwise)
 - C) 2-3 turns to the left, the right (clockwise)
 - D) 2-3 turns to the right, the left (counter clockwise)

- 5) ECC should generally supply the standpipe system with a pressure of ____ psi, plus an additional 5 psi per floor of elevation. This is measured to the floor on which the hoseline will be operating. The ECC should supply the sprinkler system with ____ psi, but should be prepared to increase pressure upon any indication that the system requires more water.
- A) 100, 100
 - B) 150, 150
 - C) 100, 150
 - D) 150, 100
- 6) A critical component of the ECC's job is the ability to quickly recognize and address problems that could jeopardize the supply of water to firefighting units. The ECC must be able to identify a problem from the pump panel that could compromise the maintenance of water in the hoseline. What would indicate a possible burst length?
- A) Intake pressure decreases
 - B) Intake pressure increases
 - C) Flow on flowmeter decreases, rig RPM decreases
 - D) Flow on flowmeter increases, rig RPM increases

True or False (Questions 7-13)

- 7) A standpipe system is an auxiliary fire protection system installed in certain buildings/facilities. The requirement of standpipe systems is based on any of the following factors: building height, floor area, and/or fire department vehicle access.
- 8) When supplying a standpipe Siamese a 2 1/2" hose should be used stretched from a pumper. Also, one pumper is sufficient in supplying system.
- 9) When performing a stretch from a standpipe outlet, the control firefighter will proceed to the floor below the fire with a folded length of 2 1/2" hose and the standpipe kit.
- 10) All hoselines stretched from standpipes shall be connected to outlets on floors below the fire floor. If a pressure reducing device (PRD) is found on the standpipe outlet, it should be removed. If the PRD cannot be removed, this outlet is considered Out of Service.
- 11) The use of the Engine Company's In-line pressure gauge attached to the standpipe outlet to ensure correct nozzle pressure should always be used.
- 12) If building is equipped with both standpipe and sprinkler systems and standpipe is to be used, the engine company first to arrive must connect first line to standpipe siamese and second line to sprinkler siamese.
- 13) To supply the standpipe if the Siamese is inoperable (but the system is otherwise serviceable) or if the Siamese is supplied but further augmentation is required, this can be done by connecting and supplying water to the first-floor outlet. To make this connection a 3"x 2 1/2" reducer and a 2 1/2" double female is required. Another option to make this connection would be to use a 3" double female and a 2 1/2"x3" increaser.

Matching (Question 14-17)

Always observe the color of the Siamese or outlet caps and indicating signs or plates before connecting hose lines. Color markings for the systems are:

- A)** Red
- B)** Green
- C)** Yellow
- D)** Aluminum

14) ___ Combination standpipe/sprinkler

15) ___ Automatic sprinkler

16) ___ Standpipe

17) ___ Non-automatic sprinkler

Cycle 15 Answer Key

Chapter 12: Standpipe 2 ½" line

1. C (CH12 sec 4.3.3) pg. 28
2. D (CH12 sec 4.3.3) pg. 28
3. C (CH12 sec 4.4.2) pg. 30
4. A (CH12 sec 4.3.4) pg. 29
5. C (CH12 sec 4.3.7, 4.4.3) pg. 30-31
6. D (CH12 sec 5.2.3) pg. 32
7. True (CH12 sec 8) pg. 161
8. False (CH12 sec 8.1) pg. 161
9. True (CH12 sec 8.2) pg. 161
10. False (CH12 sec 8.2.b) pg. 163
11. True (CH12 sec 8.2.c) pg. 163
12. True (CH12 sec 8.2.g) pg. 163
13. True (CH12 sec 8.2.e) pg. 163
14. C (CH12 sec 8.2.e) pg. 163
15. B (CH12 sec 8.2.e) pg. 163
16. A (CH12 sec 8.2.e) pg. 163
17. D (CH12 sec 8.2.e) pg. 163