



**MONTGOMERY COUNTY FIRE AND RESCUE SERVICE
DRIVER/OPERATOR TRAINING PROGRAM**

Practical Application Guide Sheet

Engine: Back Flush Centrifugal Pump

Candidate Performance Competency: The driver candidate shall demonstrate procedures for back flushing the centrifugal pump using hydrant pressure.

Task	Value	Score
1. Stop Engine and apply parking brake.	5	
2. Place wheel chock on downhill side of front or rear tire. (CFP)	5	
3. Partially open hydrant to flush. Water must run clear and free of debris. Shut hydrant.	10	
4. Place a gate valve on one 2 ½" hydrant discharge. Utilizing appliances, connect 3" hoseline from gate valve to the highest discharge on the pump (usually the deck gun). (CFP)	5	
5. Remove all intake and discharge caps and screens on the pump. Disconnect all pre-connected hose at the discharge.	10	
6. Open TPM to a sufficient pressure.	5	
7. Open the hydrant. Charge the 3" hoseline.	5	
8. Open the valve to highest discharge on the pump, normally the deck gun, allowing water to enter pump.	5	
9. Cycle the valves on the discharges one at a time from highest to lowest. Allow water to run until it is clean and free of debris and foam solution. (CFP)	10	
10. Cycle the MIV one at a time. Allow water to run until it is clear and free of debris.	10	
11. Close the gate valve to the highest discharge to cease water flow into the pump. Open appropriate bleeder.	5	
12. Close hydrant. Disconnect the hose and gate valve. Secure all blind caps and return appliances to service.	5	
13. Reset TPM to zero.	5	
14. Inspect intake screens for damage.	5	
15. Replace all intake and discharge caps and screens on the pump. Connect all pre-connected hose. Lubricate valves as necessary.	5	
16. Ensure Engine is ready for service.	5	
Total Points	100	

Critical Fail Points

Failure to successfully perform any of the following components will result in an automatic failure of this evolution regardless of total score.

- a) Failure to use gate valve attached to hydrant for quick shut off in the event of an emergency.
- b) Failure to use wheel chock.
- c) Failure to backflush pump in proper sequence.

Evaluator: Initial beside the final outcome of the exam below.

____ **PASS** ____ **FAIL – Overall Points** ____ **FAIL – Critical Failure Point**

Evaluator Name

Date

Evaluator Signature