



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

# **Practical Application Guide Sheet**

## **Back Flush Centrifugal Pump** (Revised March 2015)

**Driver Performance Competency:** The steps listed in this guide sheet outline the proper sequence for backflushing a centrifugal fire pump. The driver candidate shall demonstrate procedures for back flushing the centrifugal pump using hydrant pressure.

1. Stop Engine and apply parking brake. \_\_\_\_\_(5)
2. Place wheel chock in appropriate location. \_\_\_\_\_(5)
3. Partially open hydrant and flush hydrant until water runs clear and contains no debris then shut hydrant down. \_\_\_\_\_(10)
4. Remove all intake and discharge appliances, hose and screens. \_\_\_\_\_(10)
5. Connect a 2 1/2" to 4" Storz gate valve to hydrant butt. Connect 3" supply line from gate valve to the highest discharge on the pump (deck gun) using appropriate appliances. \_\_\_\_\_(5)
6. Open TPM to a sufficient pressure. \_\_\_\_\_(5)
7. Slowly open gate valve attached to hydrant to charge the supply line. \_\_\_\_\_(5)
8. Open deck gun gate valve allowing water to enter pump. \_\_\_\_\_(5)
9. Open discharges one at a time from highest to lowest. Allow water to run until it is clean and free of debris and foam solution. \_\_\_\_\_(10)
10. Open MIVs one at a time. Allow water to run until it is clear and free of debris. \_\_\_\_\_(10)
11. Close deck gun gate valve. \_\_\_\_\_(5)
12. Close hydrant, open deck gun bleeder. \_\_\_\_\_(5)
13. Reset TPM to "0." \_\_\_\_\_(5)
14. Inspect intake screens for damage. \_\_\_\_\_(5)

15. Replace all hoses, appliances and screens. Lubricate as necessary. \_\_\_\_\_(5)

16. Ensure Engine is ready for service. \_\_\_\_\_(5)

**Total Possible Points 100**

**Candidate's Score \_\_\_\_\_**

## **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.**

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

**PASS**

**FAIL**

\_\_\_\_\_  
**Test Evaluator**

\_\_\_\_\_  
**Date**