



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

Practical Application Guide Sheet

TDA - Pneumatic Lifting Bags (Airbags)

Candidate Performance Competency: The candidate will demonstrate proficiency in the use and application of high and medium pressure pneumatic lifting bags. All evolutions will be completed without loss of stability of the object being lifted.

Task	Value	Score
1. Identify all types of pneumatic lifting bags carried on the apparatus.	5	
2. Explain the requirements of post-use, monthly and annual maintenance of the pneumatic lifting bags.	4	
3. Identify the different characteristics of low, medium and high pressure pneumatic lifting bags.	4	
4. Identify the different working pressures of low, medium and high pressure pneumatic lifting bags.	3	
5. Explain the relationship of PSI to BAR.	3	
6. Determine the maximum number of bags that can be stacked and the procedure to do so.	4	
7. Identify the working pressure of all hoses used with pneumatic lifting bags.	4	
8. Identify all the components necessary to use perform a pneumatic lifting bag exercise i.e. air source, controller, supply hose, bags, bag hoses, shut off valves, cribbing, base pads. (CFP)	4	
9. Identify the maximum lifting capacity of the pneumatic lifting bags carried on the apparatus.	5	
10. Identify the maximum height a high pressure pneumatic lifting bag can lift at maximum capacity.	5	
11. Determine the maximum capacity of a high pressure pneumatic lifting bag by measurement.	5	
12. Determine the maximum lifting height of a high pressure pneumatic lifting bag by measurement.	5	
Object Lift – High Pressure System <i>Lift height will include at least one repositioning of the bags.</i>		
13. Assemble necessary equipment complete the lift. (CFP)	4	
14. Estimate the weight of the object to be lifted.	5	
15. Identify any characteristics of the object that will affect the lift.	5	

Task	Value	Score
16. Determine the proper lifting point(s) to achieve the objective.	5	
17. Determine the proper stabilization points to achieve the objective.	5	
18. Stabilize the object in preparation for lifting.	5	
19. Position the airbags. Use a cribbing base or pads as necessary.	4	
20. Identify a single person to call the lift and only accept commands from that person.	4	
21. Build cribbing as the object is lifted to safely stabilize the object in an elevated position in the event of an equipment failure or when the final lifting height is achieved. (CFP)	4	
22. Lift the object only as far as necessary to achieve the objective. Lift must be completed without uncontrolled shifting or movement of the object. (CFP)	4	
23. Lower the object while maintaining stability and cribbing of the object. (CFP)	4	
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) Inability to identify and assemble system components
- b) Failure to maintain stability and control of the object during lifting or lowering
- c) Inappropriate or ineffective cribbing methods
- d) Failure to achieve lifting objective defined by the evaluator
- e) Incorrect or unsafe application of system components

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

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

Evaluator Name

Date

Evaluator Signature