MONTGOMERY COUNTY FIRE AND RESCUE SERVICE
DRIVER/OPERATOR TRAINING PROGRAM

Practical **A**pplication **G**uide **S**heet

Aerial Tower – Elevated Stokes Basket Rescue

Candidate Name:_____

Candidate Performance Competency: The candidate will evaluate and assemble a rope system in conjunction with an aerial tower to facilitate lowering a victim from an elevated location in a stokes basket. Assistants may assist during system assembly, however the Candidate must demonstrate to the Evaluator's satisfaction proficiency with the application and use of system components.

Task	Value	Score
1. Identify the victim location and removal route. Candidate will position and stabilize the apparatus for aerial use.	3	
2. Candidate will describe tip loads and safe operating conditions for the individual aerial device performing the evolution	5	
3. Locate and identify all equipment needed to perform the evolution.	3	
4. Candidate will describe options and install change of direction pulleys under the platform for main and belay line. **(CFP)** a. Lifting eyes – fixed and focused with webbing b. Leveler bracket – basket hitch with rated straps or wrap-three/pull-two with webbing c. Identify load capacities of anchor points	8	
5. Candidate will install change of direction pulleys to the bed section of the ladder. Candidate will describe the reason for placement of these pulleys. **(CFP)** *(prevent torsional loading of aerial)*	6	
6. Candidate will describe and construct the anchor to be used for ground level belay device and change of direction for the main line. **(CFP)** a. Vehicle tow hooks or aerial outriggers are most common	6	
7. Candidate will manage preparation of the stokes basket for hoisting. a. Attach a tag line rope. **(CFP)** b. Attach and adjust the bridle with gates out and locked. c. Load any lashing or immobilization equipment necessary for patient packaging	6	
8. Candidate will install the main and belay ropes in the changes of direction and anchors and attach to the prepared stokes basket. **(CFP)** a. Candidate will tie double long-tailed bowline knot	5	

Task	Value	Score
9. Candidate will describe the safety check process while conducting a check of the system prior to hoisting. a. Explain the "three sets of eyes" concept **(CFP)**	5	
10. Candidate will operate the aerial ladder to deliver the stokes basket to the victim location. Assistants will manage the main, belay, and tag lines as necessary. a. Main line will be managed through a Munter hitch or other friction method at the ground level change of direction anchor; belay line remains free from friction devices b. Once the aerial ladder is set and in place as a high directional all aerial movements should cease unless absolutely necessary **(CFP)**	5	
11. With the stokes basket landed and aerial in final position, Candidate will install a change of direction device and rappel rack on the main line at ground level. a. Weave at least six bars of the rack **(CFP)** b. Lock off the rappel rack **(CFP)**	4	
12. Candidate will manage assembly of a dynamic hauling system on the main line. **(CFP)** a. Load end of the hauling system connected to the rappel rack on the main line b. Candidate selects an appropriate anchor	10	
13. Candidate will manage assembly of the belay system using either tandem prusiks or Rescue 540°**. (CFP)**	5	
14. Candidate will describe the safety check process while conducting a check of the system prior to hoisting.	3	
15. Candidate will manage the removal of slack from the system and ensure the stokes basket is leveled as necessary.	3	
16. Candidate will manage raising the stokes basket above an obstacle. a. Candidate will lead the exercise using standard rope rescue commands b. When adequate clearance is reached, the Candidate will lock the hauling system to secure the main line **(CFP)**	10	
17. Candidate will manage lowering the stokes basket to the designated landing area. a. Rappel rack using at least four bars **(CFP)** b. Standard rope rescue commands	10	
18. Candidate and assistants will relieve any load on the rope system, disassemble and make all equipment ready for service. a. Equipment checked for damage b. Equipment returned to storage locations	3	
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 position the aerial apparatus or aerial platform effectively

b) Incorrect knot application or construction

c) Incorrect hardware application or assembly

d) Improper anchor point

e) Incorrect or ineffective tag line – does not control the basket

f) Incorrect or ineffective main line

g) Incorrect or ineffective belay system

h) Incorrect or ineffective dynamic hauling system

i) Failure to coordinate or implement main and belay lines

j) Failure to lower victim to the ground using rappel rack; using prohibited functions of the aerial

k) Failure to complete safety check prior to loading the system

l) Loss of control of the stokes basket or impact with an obstacle

m) Shock load applied to any part of the system

n) Rope system configuration that causes torsional stress on the aerial

o) Failure to lock the haul system prior to lowering

p) Failure to lock the rappel rack as needed

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

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

_____ _____

Evaluator Name **Date**

Evaluator Signature