

MONTGOMERY COUNTY FIRE AND RESCUE SERVICE DRIVER/OPERATOR TRAINING PROGRAM

Practical Application Guide Sheet

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. Candidate will position the apparatus and aerial device with the goal of eliminating or minimizing aerial movement with a loaded 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
 Identify the victim location and removal route. Candidate will position and stabilize the apparatus for aerial use. (CFP) a. Optimal position places the aerial in line with or at a 90° angle to the body of the apparatus to align the rope system with the typical anchor points on the apparatus 	10	
2. Candidate will describe tip loads and safe operating conditions for the individual aerial device performing the evolution	3	
 Locate and identify all equipment needed to perform the evolution. 	3	
 4. Candidate will describe anchor options at the platform end of the aerial device and install change of direction pulleys 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	
 Candidate will describe and construct the anchors to be used for ground level belay device and change of direction for the main line. (CFP) 	6	
 6. 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 	4	
 Candidate will install the main and belay ropes in the changes of direction at the platform and ground level anchors and attach to the prepared stokes basket. (CFP) Candidate will tie double long-tailed bowline knot 	4	

Task	Value	Score
8. Candidate will describe the safety check process while		
conducting a check of the system prior to hoisting.	3	
a. Explain the "three sets of eyes" concept (CFP)		
9. Candidate will operate the aerial device to deliver the stokes		
basket to the victim location. Aerial placement must ultimately		
eliminate or minimize the need to move the aerial once the		
stokes is loaded. Assistants will manage the main, belay, and	_	
tag lines as necessary.	5	
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)		
10. Candidate will explain the management of torsional load forces		
on the aerial device and assess the need for change of		
direction pulleys at the bed section of the aerial. If necessary,		
candidate will install change of direction pulleys to the bed		
section of the aerial. (CFP)	6	
a. If aerial construction causes rigging equipment to be installed where it		
will interact with moving parts of the aerial device, i.e. pulleys, cables,		
reeved until the aerial is in its final position (CFP)		
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 the ground level anchor.	4	
a. Weave at least six bars of the rack (CFP)		
b. Lock off the rappel rack (CFP)		
12. Candidate will manage assembly of a dynamic hauling system		
on the main line. (CFP)	10	
a. Load end of the nauling system connected to the rappel rack on the	10	
b. Candidate selects an appropriate anchor		
13. Candidate will manage assembly of the belay system using	_	
tandem prusiks or mechanical belav device. (CFP)	5	
14. Candidate will describe the safety check process while	0	
conducting a check of the system prior to hoisting.	3	
15. Candidate will manage the removal of slack from the system	2	
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	10	
b. When adequate clearance is reached, the Candidate will leak the		
hauling system to secure the main line (CFP)		
17. Candidate will manage lowering the stokes basket to the		
designated landing area.	10	
a. Rappel rack using at least four bars (CFP)		
b. Standard rope rescue commands		

Task	Value	Score
 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) Excessive repositioning of the aerial with a loaded stokes basket
- 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 or using prohibited functions of the aerial
- k) Failure to complete safety check prior to loading the system
- I) 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 fails to address torsional stress on the aerial or exposes rope system components to damage beyond normal wear
- 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 – Points (<70%) ___ FAIL – Critical Failure Point

Evaluator Name

Date

Evaluator Signature

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