



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

## Practical Application Guide Sheet

### Aerial & Rescue - Generator Operations

**Candidate Performance Competency:** The driver trainee will demonstrate proficiency and knowledge in the operations and of the onboard generator, electrical components and set-up of electrical systems.

Task	Value	Score
1. The driver trainee will provide the following information:		
a. Location and type of on-board generator. ( <i>PTO, diesel, hydraulic</i> )	1	
b. Capacity of the on-board generator: _____	5	
c. Locations on apparatus to start/stop generator	5	
d. Location, length, wire gauge, and breaker rating of fixed cord reels	5	
e. Location, length, and wire gauge of portable cord reels	5	
f. Location of electrical panel and purpose of each breaker	5	
g. Location and purpose of all pigtail adapters	3	
2. Candidate will describe the equation to determine the power requirements (wattage) of a given tool or appliance then determine the units of electricity required for each type of portable lighting or electric tool. ( <i>volts x amps = watts</i> )	10	
3. Candidate will start/engage the on-board generator.	10	
4. Candidate will complete the following to illuminate a simulated 3-room burned out area.		
a. Deploy a primary cord (trunk line) into structure with a junction box	5	
b. Deploy secondary cords (branch lines) from junction box	5	
c. Select, deploy, and connect portable lights to illuminate rooms	5	
5. As applicable to the testing apparatus, Candidate will raise, aim, and stow a light tower.		
a. Locate light tower controls	1	
b. Check for overhead obstructions prior to raising light tower <b>(CFP)</b>	7	

Task	Value	Score
c. Raise, extend, rotate and tilt light tower to aim at a target designated by the Evaluator.	3	
d. Stow the light tower.	5	
6. Candidate will explain all maintenance requirements for the generator.	5	
7. Candidate will describe the electrical requirements and demonstrate a working knowledge of the following electrical equipment as available on the test unit:		
a. Smoke ejector	5	
b. Electric PPV	5	
c. Tripod light	5	
<b>Total Points</b>		

## **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 check for overhead obstructions or striking a fixed object with the light tower
- b) Failure to complete illumination of area requested

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

\_\_\_\_\_ **PASS**    \_\_\_\_\_ **FAIL – Overall Points**    \_\_\_\_\_ **FAIL – Critical Failure Point**

\_\_\_\_\_  
**Evaluator Name**

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

\_\_\_\_\_  
**Evaluator Signature**