MONTGOMERY COUNTY FIRE AND RESCUE SERVICE
DRIVER/OPERATOR TRAINING PROGRAM

EMERGENCY VEHICLE DRIVER/OPERATOR TRAINING COMPETENCIES AERIAL UNITS – ALL TYPES

Candidate Name: _____ID#_____ Date: _____

Station/Shift/Dept: **_____ Mentor: _____**

Unit #: _____ Make: _____ Year: _____

Supervisor Name:_____

I have reviewed and confirmed that all competencies are completed for this candidate:

_____ _____
Supervisor Signature **Date**

Master Able to perform Competency 90-100% of the time without assistance.
**Proficient ** Able to perform Competency 80-90% of the time without assistance.
** Competent ** Able to perform Competency 70-80% of the time without assistance.

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
1.0	**Emergency Vehicle Pre-Response Preventative Maintenance Inspection (NFPA 1002)**			
1.1	Master	Candidate will explain the process and properly perform a pre-response PM inspection, and provide adequate documentation on a checklist.		
1.2	Proficient	Candidate will successfully explain the purpose of emergency vehicle pre-response preventative maintenance inspections.		
1.3	Proficient	Candidate will successfully explain the steps to the emergency vehicle pre-response inspection process.		
1.4	Proficient	Candidate will successfully explain the safety precautions for emergency vehicle pre-response preventative maintenance inspections.		
1.5	Master	Candidate will successfully conduct a pre-response inspection on an emergency vehicle.		
2.0	**Vehicle Inspection and Driving Preparation (NFPA 1002)**			
2.1	Proficient	Candidate will explain how to perform a complete emergency vehicle inspection, schedule routine maintenance, and complete required documentation.		
2.2	Competent	Candidate will successfully identify major motor vehicle components.		
2.3	Competent	Candidate will successfully explain features of an emergency vehicle pre-response preventable maintenance inspection.		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
2.4	Competent	Candidate will successfully explain how to perform routine maintenance on an emergency vehicle.		
2.5	Master	Candidate will successfully explain safety checks and adjustment that should be made to prepare for emergency vehicle driving.		
2.6	Master	Candidate will demonstrate proficiency in how to start the emergency vehicle.		
2.7	Master	Candidate will successfully explain precautions to take before moving an emergency vehicle.		
2.8	Master	Candidate will successfully conduct an inspection on a piece of apparatus at the station using the model inspection checklist		
2.9	Proficient	Candidate will explain the apparatus and equipment defect reporting procedures for assigned station.		
2.10	Competent	Candidate will identify vehicle height, weight, length and width.		
3.0	**Operating an Emergency Vehicle (NFPA 1002)**			
3.1	Master	Candidate will be able to explain the purpose and use of emergency signaling equipment, how basic vehicle control tasks are accomplished, required urban driving skills, how to negotiate intersections, and make vehicle turnabouts.		
3.2	Master	Candidate will successfully explain the purpose of emergency vehicle signaling equipment.		
3.3	Proficient	Candidate will successfully explain basic emergency vehicle control tasks.		
3.4	Competent	Candidate will successfully explain urban emergency vehicle defensive driving skills.		
3.5	Master	Candidate will successfully explain how to safely negotiate a vehicle through intersection.		
3.6	Master	Candidate will successfully explain how to safely negotiate a vehicle operated in an emergency mode through intersections.		
3.7	Master	Candidate will successfully explain how to turn emergency vehicles around in a variety of situations.		
3.8	Master	Candidate will successfully explain the safe operating procedure for following another vehicle.		
3.9	Master	Candidate will successfully explain the safe operating procedures for passing another vehicle.		
3.10	Master	Candidate will successfully explain the safe operating procedures for expressway operations.		
3.11	Master	Candidate will successfully explain the safe operating procedures for driving at high speeds.		
3.12	Master	Candidate will successfully explain the operation of the rear axle locks and positive traction devices.		
4.0	**Handling Dangerous & Unusual Driving Situations (NFPA 1002)**			
4.1	Proficient	Candidate will be able to explain methods to prevent, and when necessary, control unusual and dangerous driving situations.		
4.2	Proficient	Candidate will successfully identify proper operating procedures for driving in adverse conditions.		
4.3	Proficient	Candidate will successfully explain how to handle contingency situations when they occur.		
4.4	Proficient	Candidate will successfully explain how to handle skids.		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
4.5	Proficient	Candidate will successfully explain how to handle vehicle emergencies.		
4.6	Proficient	Candidate will successfully explain how to park a vehicle in an emergency.		
4.7	Proficient	Candidate will demonstrate proficiency in the proper use of on-spot chains.		
4.8	Proficient	Candidate will demonstrate proficiency in the proper installation of snow chains on that particular vehicle.		
5.0	**Driving Course Rules & Procedures (NFPA 1002)**			
5.1	Master	Candidate will demonstrate proficiency in applications of rules and procedures during driving course exercises, with guidance. When training on a tractor drawn truck, the candidate must complete the driving course for the driver and tiller positions.		
5.2	Master	Candidate will demonstrate proficiency in the completion of the serpentine exercise.		
5.3	Master	Candidate will demonstrate proficiency in the completion of the alley dock exercise.		
5.4	Master	Candidate will demonstrate proficiency in the completion of the opposite alley exercise.		
5.5	Master	Candidate will demonstrate proficiency in the completion of the turn around exercise.		
5.6	Master	Candidate will demonstrate proficiency in the completion of the diminishing clearance exercise.		
5.7	Master	Candidate will demonstrate proficiency in parallel parking of an emergency vehicle.		
5.8	Master	Candidate will successfully explain the purpose of the controlled braking exercise.		
6.0	**Driving Experience – non-emergency**			
6.1	Master	Candidate must complete a minimum of 12 hours driving time on public roadways (parking lot time does not count towards this requirement). When training on a tractor drawn aerial, the candidate must complete 12 hours driving time for each position; tractor driver and tiller operator.		
7.0	**Gas Powered/Electric Fans**			
7.1	Master	Candidate will demonstrate knowledge and proficiency in the use of gas and electric fans carried on the apparatus.		
7.2	Master	Positive Pressure Blower (PPV)		
		a) Placement for:		
		1. House Fires		
		2. Garden Apartment Fires		
		3. High Rise Fires		
		4. Below Grade Fires		
		b) Set up:		
		1. Parallel		
		2. Series		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
		c) Maintenance:		
		1. Fan blades		
		2. Oil level		
		3. Fan shroud, screen, and housing		
		4. Proper fuel		
7.3	Master	Smoke Ejector		
		a) Set up:		
		1. Positive Pressure Ventilation		
		2. Negative Pressure Ventilation		
		3. Tandem with PPV blowers		
8.0	**Power Saws**			
8.1	Master	Candidate will demonstrate the use and knowledge of all saws carried on the apparatus.		
8.2	Master	Chain Saw		
		a) Operation		
		b) Types of Blades (Carbide, Regular)		
		c) Replacement of Blade		
		d) Type of Fuel		
		e) General Maintenance		
8.3	Master	Cut-off (Rotary) Saw		
		a) Operation		
		b) Type of Fuel		
		c) Types and Applications of Blades		
		d) Replacement of Blade		
		e) General Maintenance		
8.4	Master	Reciprocating Saw		
		a) Operation		
		b) Power source		
		c) Types and Applications of Blades		
		d) Replacement of Blade		
		e) General Maintenance		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
9.0	**Hydraulic Tools and Equipment – if equipped**			
9.1	Master	Candidate will demonstrate knowledge and use of the fixed hydraulic power plant(s).		
		a) hydraulic fluid access and level		
		b) length of hose on reels and coils		
9.2	Master	Candidate will demonstrate knowledge and use of the portable hydraulic power plant(s).		
		a) hydraulic fluid access and level		
		b) tool capacity		
9.3	Master	Candidate will demonstrate knowledge and use of the following equipment:		
		a) spreaders		
		b) cutters		
		c) rams		
		d) combination tool		
		f) accessories		
9.4	Proficient	Candidate will demonstrate knowledge and use of bottle jacks.		
10.0	**Pneumatic Tools & Equipment – if equipped**			
10.1	Proficient	Candidate will demonstrate proficiency in the type and operation of any air regulator(s).		
10.2	Master	Candidate will demonstrate ability to assemble and use a remote air system:		
		a) Air sources		
		b) Adapters		
10.3	Master	Candidate will demonstrate proficiency in the use of the following pneumatic tools:		
		a) self-oilers		
		b) air chisel		
		c) rotary/wizzer saw		
		d) impact wrench		
		e) air ratchet		
10.4	Master	Candidate will demonstrate proficiency in the use of the high pressure lifting air bags:		
		a) sizes		
		b) capacity		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
		c) assembly and placement		
		d) tandem use and stacking		
11.0	**Shoring & Stabilization Equipment – if equipped**			
11.1	Master	Candidate will demonstrate knowledge and use of cribbing for the following configurations:		
		a) box crib (up to 4 points of contact)		
		b) sloped box crib		
		c) step cribbing, wedges, and shims		
11.2	Proficient	Candidate will demonstrate knowledge and use of stabilization struts:		
		a) sizes		
		b) capacity		
		c) accessories		
12.0	**Rope Systems & Rescue Equipment**			
12.1	Proficient	Candidate will demonstrate interior lashing of a patient in the stokes basket.		
		a) waist lashing (15' webbing)		
		b) foot lashing (15' webbing)		
		c) chest lashing (15' webbing)		
12.2	Proficient	Candidate will demonstrate exterior lashing of a patient in the stokes basket.		
12.3	Master	Candidate will demonstrate rigging a stokes basket and SKED stretcher in the following configurations:		
		a) vertical raise		
		b) horizontal raise		
		c) slope evacuation • 3:1 simple • 4:1 compound		
13.0	**Ground Ladders**			
13.1	Master	Candidate will be able to identify and be familiar with all ground ladders carried on the apparatus.		
13.2	Proficient	Candidate will perform a visual check of the ground ladders to check for the following:		
		a) General defects.		
		b) Any damage.		
		c) Condition of the halyards.		
		d) Condition of the heat sensor.		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
13.3	Proficient	Candidate will demonstrate the proper technique for deploying ground ladders:		
		a) Work off a ladder.		
		b) Ventilation		
		c) Rescue from a window.		
14.0	**Aerial Master Stream Operations**			
14.1	Master	Candidate will demonstrate proficiency setting up the aerial apparatus for master stream operations in various situations.		
14.2	Master	Stream Placement		
		a) Cooling a pressurized tank.		
		b) Exposure protection.		
		c) Fire Extinguishment.		
14.3	Master	Flying Standpipe		
		a) Proper setup.		
		b) Proper placement.		
15.0	**PTO, Apparatus Stabilization, and Basic Aerial Functions**			
15.1	Master	Candidate will demonstrate proficiency engaging the apparatus PTO.		
15.2	Master	Candidate will demonstrate proficiency stabilizing the apparatus for aerial operations as follows:		
		a) Normal operations.		
		b) Emergency operations (EPU)		
15.3	Master	Candidate will demonstrate proficiency stabilizing the apparatus for the following situations:		
		a) Soft ground		
		b) Even and uneven terrain		
		c) Lateral and Longitudinal Slopes		
		d) Short jacking		
15.4	Master	Candidate will demonstrate proficiency with the following aerial functions:		
		a) Raise/Lower		
		b) Rotate		
		c) Extent/Retract		
		d) Emergency operations (EPU)		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
16.0	**Apparatus Positioning, Spotting and Ladder Placement**			
16.1	Proficient	Candidate will demonstrate proficiency positioning the apparatus to maximize scrub area for the aerial device.		
16.2	Proficient	Candidate will demonstrate proficiency positioning the aerial ladder for the following situations:		
		a) Rescue at a window		
		b) Rescue at a balcony		
		c) Roof access		
16.3	Master	Candidate will explain considerations and limitations when operating the aerial in the following conditions:		
		a) Ice and/or snow		
		b) Wind		
17.0	**Elevator Emergencies**			
17.1	Master	Candidate will identify and demonstrate knowledge of the tools carried for elevator rescue.		
17.2	Proficient	Candidate will describe the characteristics and functions of elevator operations:		
		a) Hydraulic Elevators		
		b) Traction Elevators		
		c) Elevator Keys		
		d) Firefighter Service		
		e) Lock Out/Tag Out		
18.0	**Electrical Systems & Lighting Equipment**			
18.1	Master	Candidate will demonstrate knowledge, use, and application of the following equipment:		
		a) Onboard generator capacity, operation, power outlets, circuit breaker panel		
		b) Portable generator(s) capacity, operation, fuel type		
		d) Fixed scene lights		
		e) Portable scene lights		
		f) Fixed cord reels cord gauge, cord length, operation		
		g) Portable cord reels cord gauge, cord length		
18.2	Master	Candidate will use onboard equipment to illuminate a 3-room area. The setup will consist of a trunk line, branch lines, portable lights, and any necessary adapters.		
19.0	**Policy and Procedures**			
19.1	Master	Candidate will be familiar with Policy #24-07AMII SOP for Safe Structural Firefighting Operations		

Section	*Performance Level*	*Competencies*	*Evaluator Initials*	*Date Completed*
19.2	Proficient	Candidate will be familiar with the following policies:		
		a) #24-06AMII Metro Incident SOP		
		b) #25-07 Natural Gas Incident Response		
		c) #24-04 Vehicle Accident Response		
		d) #24-02 Vehicle Collision Investigation		
		e) #24-03 First Response for Trench Collapse Incident		
20.0	**WMATA Operations**			
20.1	Proficient	Candidate will demonstrate knowledge in WMATA operations for Truck Companies:		
		a) Assemble and identify WMATA-specific equipment on the apparatus		
		b) Functional check and use of Volt Probe		
		c) Truck company responsibilities for a WMATA rail incident.		
		d) Placement of wheel chocks on a WMATA rail car		
		e) Procedure for discharging a rail car capacitor		
		f) Procedure for monitoring 3rd rail power		
		g) Functional check and placement of a WSAD		
		h) Procedure for clearing a WMATA incident after personnel have been in the ROW.		
21.0	**Apparatus Positioning**			
21.1	Proficient	Candidate will explain considerations for positioning an aerial apparatus on the following incident types:		
		a) EMS incident		
		b) Vehicle collision		
		c) Trench collapse		
		d) Single family dwelling fire		
		e) Hazardous materials incident		
		f) Commercial structure fire		
22.0		**Apparatus Inventory**		
22.1	Master	Candidate will demonstrate knowledge of apparatus inventory.		