



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

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

Trainee Name: _____ **ID#** _____

Mentor: _____

Supervisor Name: _____

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

Supervisor Signature **Date**

The following competencies are intended to meet or exceed the requirements of NFPA 1002: Standard for Fire Apparatus Driver/Operator Professional Qualifications.

Section	Competencies	Evaluator Initials	Date Completed
1.0	Pre-Use Inspection and Driving Preparation		
1.1	Trainee will explain the purpose of emergency vehicle pre-use inspections and routine maintenance		
1.2	Trainee will explain the safety precautions for emergency vehicle pre-use maintenance and inspections.		
1.3	Trainee will explain the process of a complete emergency vehicle inspection, schedule routine maintenance, and complete required documentation.		
1.4	Trainee will identify major motor vehicle components.		
1.5	Trainee will explain or demonstrate routine maintenance conducted at the station on an emergency vehicle.		
1.6	Trainee will explain safety checks and adjustment that should be made to prepare for emergency vehicle driving.		
1.7	Trainee will demonstrate starting the emergency vehicle.		
1.8	Trainee will explain and demonstrate precautions to take before moving an emergency vehicle.		
1.9	Trainee will conduct a pre-trip inspection at the station using the model inspection checklist.		
1.10	Trainee will demonstrate researching existing defects and completed maintenance items using existing reporting systems.		
1.11	Trainee will explain the apparatus and equipment defect reporting procedures for assigned station.		

<i>Section</i>	<i>Competencies</i>	<i>Evaluator Initials</i>	<i>Date Completed</i>
1.12	Trainee will identify vehicle height, weight, length and width.		
1.13	Trainee will identify where to locate vehicle fluid specifications and capacities.		
2.0 Operating an Emergency Vehicle			
2.1	Trainee will explain the purpose and demonstrate engagement of visual and audible warning equipment.		
2.3	Trainee will explain urban emergency vehicle defensive driving skills.		
2.4	Trainee will explain considerations for lane selection and hazards of navigating through intersections.		
2.5	Trainee will explain considerations and requirements to operate a vehicle in emergency mode through intersections.		
2.6	Trainee will explain considerations for selecting locations to turn emergency vehicles around in a variety of situations.		
2.7	Trainee will explain the safe operating procedure for following another emergency vehicle.		
2.8	Trainee will explain the safe operating procedures for passing another emergency vehicle.		
2.9	Trainee will explain the safe operating procedures for highway operations.		
2.10	Trainee will explain considerations for selecting travel speeds during an emergency response, i.e. road conditions, weather, traffic, policy.		
2.11	Trainee will explain the operation of traction or stability control systems.		
2.12	Trainee will identify and explain the operation of auxiliary braking systems.		
3.0 Handling Dangerous & Unusual Driving Situations			
3.1	Trainee will identify considerations and actions for driving in adverse conditions.		
3.2	Trainee will identify potential contingency situations, the causes, prevention measures, and proper actions when they occur.		
3.3	Trainee will identify the common causes of skids, prevention measures, and proper actions to take if they occur.		
3.4	Trainee will explain how to handle on the road mechanical failures or emergencies.		
3.5	Trainee will explain considerations for parking during a mechanical breakdown.		
3.6	Trainee will explain the use and limitations of automatic and traditional snow chains.		
3.7	Trainee will demonstrate the installation of snow chains on the assigned truck company.		
4.0 Driving Course			
4.1	For Class B aerial apparatus, the trainee will complete the MCFRTA emergency vehicle operator obstacle course or equivalent in the assigned apparatus, or For tractor-drawn aerial apparatus, the trainee will complete all practical and didactic components of the MCFRTA Class A Emergency Vehicle Operator Course and achieve certification of such a course per MCFRS requirements.		

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5.0 Driving Experience			
5.1	Trainee must complete a minimum of 12 hours non-emergency driving time on public roadways (parking lot time does not count towards this requirement). When training on a tractor-drawn aerial, the trainee must complete 12 hours at each driver position.		
6.0 Policy & Procedures			
6.1	Trainee will be familiar with Policy #24-07AMII SOP for Safe Structural Firefighting Operations		
6.2	Trainee will be familiar with all policies guiding truck company responses, including the following incident types:		
	a) WMATA emergencies		
	b) Natural gas leaks		
	c) Vehicle collisions		
6.2	d) Technical rescue		
6.3	Trainee will be familiar with policies addressing emergency vehicle operations and collisions involving fire department vehicles.		
7.0 Apparatus Positioning			
7.1	Trainee 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		
8.0 Aerial Device Inspection and Use			
8.1	Trainee will demonstrate the inspection and periodic maintenance of the aerial device, hydraulic fluid, and related components.		
8.2	Trainee will demonstrate proficiency engaging the apparatus PTO.		
8.3	Trainee will demonstrate proficiency stabilizing the apparatus for aerial operations.		
8.4	Trainee 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		

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8.5	Trainee will demonstrate proficiency with all aerial functions; raise/lower, rotate, extend/retract under normal power.		
8.6	Trainee will demonstrate operating the stabilizers and the aerial using EPU power.		
9.0 Apparatus Positioning, Spotting and Aerial Placement			
9.1	Trainee will demonstrate proficiency positioning the apparatus to maximize scrub area for the aerial device.		
9.2	Trainee will demonstrate proficiency positioning the aerial device for the following situations:		
	a) Rescue at a window		
	b) Rescue at a balcony		
	c) Roof access		
	d) Elevated change of direction or aerial stokes basket rescue		
9.3	Trainee will explain considerations and limitations when operating the aerial in the following conditions:		
	a) Ice and/or snow		
	b) Wind		
10.0 Aerial Waterway Operations			
10.1	Trainee will demonstrate proficiency setting up the aerial apparatus and controlling the master stream using both a smooth bore and fog stream.		
10.2	Trainee will demonstrate proficiency setting up and placing the aerial for a flying standpipe operation.		
11.0 Mechanical Ventilation Equipment			
11.1	Trainee will demonstrate knowledge and proficiency in the use of Positive Pressure Blowers (PPV), including the potential effects on fire behavior and coordination requirements with other fireground operations.		
	a) Describe placement considerations for:		
	1. Single family dwelling		
	2. Garden style apartments		
	3. Midrise and Highrise buildings		
	4. Below Grade Fires		
	b) Set up PPV blowers in parallel and series configurations and explain the application of each method.		
c) Maintenance of PPV blowers including inspection of fan blades, fan shrouds and screens, fuel and oil levels as applicable, and position adjustment mechanisms.			
11.2	Trainee will demonstrate knowledge and proficiency in the use of Smoke Ejectors.		
	a) Placement for:		
	1. Positive Pressure Ventilation		

Section	Competencies	Evaluator Initials	Date Completed
	2. Negative Pressure Ventilation		
	3. Tandem with PPV blowers		
12.0 Power Saws			
12.1	Trainee will demonstrate the use and knowledge of Chain Saws.		
	a) Operation		
	b) Types and Applications of Blades		
	c) Replacement and adjustment of blade		
	d) Type of Fuel		
	e) General Maintenance		
12.2	Trainee will demonstrate the use and knowledge of Rotary Saws.		
	a) Operation		
	b) Type of Fuel		
	c) Types and Applications of Blades		
	d) Replacement of Blade		
	e) General Maintenance		
12.3	Trainee will demonstrate the use and knowledge of Reciprocating Saws		
	a) Operation		
	b) Power source		
	c) Types and Applications of Blades		
	d) Replacement of Blade		
	e) General Maintenance		
13.0 Rope Systems & Rescue Equipment			
13.1	Trainee will demonstrate interior lashing of a patient in the stokes basket using chest, waist, and foot lashing.		
13.2	Trainee will demonstrate exterior lashing of a patient in the stokes basket.		
13.3	Trainee will demonstrate rigging a stokes basket and SKED stretcher in the following configurations:		
	a) vertical raise		
	b) horizontal raise		
	c) slope evacuation <ul style="list-style-type: none"> • 3:1 simple • 4:1 compound 		

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14.0 Ground Ladders			
14.1	Trainee will perform an inspection of the ground ladders assigned to the apparatus.		
	a) Defects, wear points, or damage.		
	c) Condition of the halyards.		
	d) Condition of the heat sensor.		
14.2	Trainee will identify and deploy all ground ladders carried on the apparatus. Trainee will demonstrate the following:		
	a) Carrying a tool and working from a ladder.		
	b) Placement for ventilation		
	c) Placement for ingress/egress from a window		
	d) Placement for access/egress from a roof		
15.0 Elevator Emergencies			
15.1	Trainee will identify and demonstrate knowledge of the tools carried for elevator rescue.		
15.2	Trainee will describe the characteristics and functions of hydraulic and traction elevators.		
15.3	Trainee will demonstrate the Firefighter's Service functions of an elevator.		
15.4	Trainee will demonstrate the use and proper application of the following elevator tools:		
	a) Elevator Keys		
	b) Poling tool		
	c) Lock Out/Tag Out		
16.0 Power & Lighting Equipment			
16.1	Trainee will demonstrate knowledge, use, and application of the following AC-voltage equipment:		
	a) Onboard generator - capacity, operation, power outlets, circuit breaker panel		
	b) Portable generator(s) - capacity, operation, fuel type		
	c) Portable scene lights – wattage		
	d) Fixed cord reels - cord gauge, cord length, operation		
	e) Portable cord reels - cord gauge, cord length		
16.2	Trainee will demonstrate knowledge, use, and application of battery-powered lighting, including battery maintenance.		
16.3	Trainee will use onboard equipment to illuminate interior and exterior areas. The setup will consist of a trunk line, branch lines, portable lights, and any necessary adapters.		

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17.0 WMATA Operations			
17.1	Trainee will identify the responsibilities of a truck company during various types of WMATA incidents.		
17.2	Trainee will describe the procedures required to enter the WMATA right-of-way during a rail incident.		
17.3	Trainee will describe the procedures required to clear and restore normal operations to the WMATA right-of-way following a rail incident.		
17.4	Trainee will describe the procedure to discharge a rail car capacitor		
17.5	Trainee will describe the procedure for verifying and monitoring the status of 3 rd rail power.		
17.6	Trainee will demonstrate maintenance and use of the following WMATA equipment:		
	a) Functional check and use of Volt Probe		
	b) Placement of wheel chocks on a WMATA rail car		
	c) Functional check and use of the WSAD		
18.0 General Inventory			
18.1	Trainee will demonstrate knowledge of apparatus inventory.		
19.0 Hydraulic Tools (Rescue Equipped Units)			
19.1	Trainee 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		
19.2	Trainee will demonstrate knowledge and use of the portable hydraulic power plant(s).		
	a) hydraulic fluid access and level		
	b) tool capacity		
19.3	Trainee will demonstrate knowledge and use of the following equipment:		
	a) spreaders		
	b) cutters		
	c) rams		
	d) combination tool		
	f) accessories		
19.4	Trainee will demonstrate knowledge, maintenance, and use of battery-powered hydraulic equipment.		
19.5	Trainee will demonstrate knowledge and use of bottle and floor jacks.		

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20.0 Pneumatic Tools (Rescue Equipped Units)			
20.1	Trainee will demonstrate proficiency in the type and operation of any air regulator(s).		
20.2	Trainee will demonstrate ability to assemble and use a remote air system:		
	a) Air sources		
	b) Adapters		
20.3	Trainee 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		
20.4	Trainee will demonstrate proficiency in the use of the high pressure lifting air bags:		
	a) sizes		
	b) capacity		
	c) assembly and placement		
	d) tandem use and stacking		
21.0 Shoring & Stabilization Equipment (Rescue Equipped Units)			
21.1	Trainee 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		
21.2	Trainee will demonstrate knowledge and use of stabilization struts:		
	a) sizes		
	b) capacity		
	c) accessories		