



MONTGOMERY COUNTY FIRE AND RESCUE SERVICE

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## **FIRE/RESCUE TRAINING ACADEMY** **LIST OF CLASSES AND PREREQUISITES**

### **Blood/Air Borne Pathogens** – 3 hours

**Course Description** – The student will be able to recognize the presence of blood/air borne pathogens, and have the knowledge needed to protect against them. This course will discuss infectious diseases such as AIDS, Hepatitis, Tuberculosis and Meningitis. Emphasis will be placed on body substance isolation, cleaning and decontaminating procedures as well as exposure treatment and follow-up procedures.

**Prerequisite:** Personal Data Sheet on file at the FRTA.

### **Equal Employment Opportunity/Affirmative Action and the Law (EEO/AA)** – 3 hours

**Course Description** – The course will discuss information pertaining to the Federal Anti-Discrimination Law known as Title VII. It also provides the student with the knowledge to understand EEO/AA and the Law as it pertains to the Fire Service.

**Prerequisite:** Personal Data Sheet on file at the FRTA.

### **Cultural Diversity** – 3 hours

**Course Description** – This course will assist the student in transitioning into the culture and traditions of the fire service. The student will gain the knowledge to work in an environment of cultural diversity within the fire service.

**Prerequisite:** Personal Data Sheet on file at the FRTA.

### **Protective Envelope & Foam** – 9 hours

**Course Description** – This course will provide the student with the training needed to protect themselves in a hazardous material situation and apply foam to hazardous materials. Major topics covered are: personal protective equipment, respiratory protection, self-contained breathing apparatus, handling hose lines and foam application.

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#### **Fire & Rescue Training Academy**

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**Prerequisite:** Personal Data Sheet, SCBA fit test & a record of compliance with the physical requirements of NFPA 1001 as amended by Montgomery County must be filed at the PSTA.

**Hazardous Materials First Responders Operations** – 24 hours

**Course Description** – (In compliance with Title 29 CFR Part 1910.120, NFPA 472, 2002 edition and NFPA 473, 2002 edition) During the Awareness portion of this course the student will gain the ability to recognize the presence of hazardous materials, protect themselves, call for trained personnel and secure the area. During the Operational portion, the student will learn how to respond in a defensive fashion to control the release from a safe distance and practice techniques to prevent spreading.

**Prerequisite:** Personal Data Sheet on file at the FRTA, a current record of compliance with the physical requirements of Montgomery County Executive Regulation 01 – 05 AM on file at FRTA, SCBA Fit test and Protective Envelope and Foam course completion.

**EMT** – 165 hours plus internship

**Course Description** – The student will be able to recognize, assess, and manage medical and trauma patients; determine and use appropriate equipment for patient management and care; communicate and work with other emergency services personnel; and maintain patient and department records.

**Prerequisite:** Personal Data Sheet, a current Physical and SCBA Fit test all on file at the FRTA, NIMS 100 & 700, as well as a department affiliation form.

**Firefighter I and II** – 168 hours (Firefighter I - 108 hours, Firefighter II - 60 hours)  
(Previously *Essentials of Firefighting*)

**Course Description** – The student will be able to understand and apply the principles of fire behavior, building construction, water distribution systems, fixed fire protection systems, ventilation, hose streams, fire prevention and inspections, ladders, and rescue techniques. In addition to the topics listed above, this course also covers fire department organization, communications, incident command system, ropes and knots, safety, personal protective equipment, respiratory protection, fire extinguishers, forcible entry, search and rescue procedures, and sprinkler systems. The students will also gain the knowledge and skills to safely and effectively perform basic fire fighting operations as part of a team. **\*\*ALL SESSIONS ARE MANDATORY\*\***

**Prerequisite:** Personal Data Sheet, a current Physical and SCBA Fit test, and successful completion of Hazardous Materials Operations course, all on file at the FRTA. These courses should be registered for and taken together. However, students must register for each class separately. Priority for Firefighter II will be given to those students who proceed from the associated Firefighter I class.

**Aerial Apparatus Operator** – 24 hours

**Course Description** – To provide the knowledge and skills to operate a fire department aerial ladder truck and associated equipment. Major topics covered in the course are truck company operations, tool requirements, terminology, techniques of spotting, stabilizing, working angles, loading, extreme operating conditions, raising and lowering, controls and valves, hydraulic systems, water tower operations, standpipe operations, ladders, safety rules, maintenance and testing.

**Prerequisite:** Successful completion of Firefighter I and II courses or equivalency.

**EVOC** – 55 hours (39 hrs MFRI course & 16 hrs of skid pan, and night time driving)

**Course Description** – The student will be able to describe the major concepts of emergency vehicle driving, including safety, legal issues, communications, vehicle inspection and preparation, physical forces affecting driving, the operation of an emergency vehicle, and demonstrate basic competency as a driver of an emergency vehicle.

**Prerequisite:** Must be at least 19 years old and present a valid non-provisional driver's license at the first session. Firefighter I and II or equivalency, or EMT/B and a current physical examination must be on file at the FRTA. Request for registration from the Local Volunteer Fire/Rescue Chief will be accepted for administrative personnel.

**Rescue Technician – Site Operations** – 40 hours (includes Swift water Training)

**Course Description** – The student will learn the principles and hazards of rescue and demonstrate the use of equipment to properly and safely perform rudimentary rigging, ladder rescue, and overland repelling. Major topics covered in this course include: maintenance and inspection of rope, anchoring and mechanical advantage, slope operations and evacuations, swift water principles and rescues. **\*\*ALL SESSIONS ARE MANDATORY\*\***

**Prerequisite:** Personal Data Sheet, a current physical and SCBA Fit test, all on file at the FRTA, Firefighter I and Firefighter II or equivalency and EMT B.

**Rescue Technician – Vehicle Machinery and Extrication** – 33 hours

**Course Description** – The student will learn the principles and hazards of rescue and demonstrate the use of tools and equipment to properly and safely perform auto extrication. Major topics covered in this course include: vehicular stabilization and extrication; specialty tools, hand tools; power and hydraulic tools; vehicular design of autos, buses and trucks; elevator & escalator rescues; farm equipment and mining/industrial equipment/machinery. **\*\*ALL SESSIONS ARE MANDATORY\*\***

**Pumps & Hydraulics** – 36 hours (30 hr MFRI course + 6 hrs. of CAFS training)

**Course Description** – The student will learn to provide the necessary pressures for all types of nozzles and hose lines carried on fire department apparatus. The student will also learn to calculate pressures needed for supply, relay and attack pumpers as well as drafting operations. Major topics covered in the course are basic terminology, water supply, water pressure and gauges, hydraulics, positive displacement props, centrifugal pumps, relief valves, pressure governors, primers, water sources and maintenance.

**Prerequisite:** Firefighter I and Firefighter II or equivalency

**EMT Recertification** – 24 hours (12 hrs online & 12 hrs of skills), you need both for certification.

**Course Description** – The student will review the roles and responsibilities of the EMT-B that is required for the emergency care of medical and trauma patients including assessing the patient, managing the airway, recognizing signs and symptoms, providing care for adults and children with medical conditions, trauma injuries and for conditions of emergency childbirth.

**Prerequisite:** Valid Maryland EMT-B card or letter of extension from MIEMSS or valid out of state EMT-B card with letter of reciprocity from MIEMSS.

**EMT-I (Intermediate) Training** – 600 hours

**Course Description** – The student is prepared to function as a Maryland CRT-99 (National Registry EMT-I). The CRT-99 functions as an advanced level charge medic in the pre-hospital environment providing the following: advanced assessment and management of all patients, advanced airway management, cardiac monitoring, 12 lead EKG interpretation, defibrillation and cardioversion, pacing, IV's, intraosseus, administration of medications, and chest decompression.

**Prerequisite:** EMT-B with 2 years experience or 150 calls as charge EMT, and successful completion of pre-entrance requirements.

**EMT-I to P Bridge Course** – 230 hours

**Course Description** – The student is prepared to function as a Maryland EMT-P (National Registry Paramedic). They will have the same level of functioning and skills as that of an EMT-I, plus nasotracheal intubation and additional medications.

**Prerequisite:** Successful completion of an EMT-I course, National Registry EMT-I certification, and an Anatomy and Physiology course that is provided in the EMT-I course or a college certification course.

**EMT-P Course** – 800 hours

**Course Description** – Provides more in depth training in the areas of advanced assessment and management of all patients, advanced airway management, cardiac monitoring, 12 lead EKG interpretation, defibrillation and cardioversion, pacing, IV's, intraosseus, administration of medications, and chest decompression.

**Prerequisites:** Must be at least 18 yrs. Old. Must have at least one full year of continuous experience as a charge EMT-B, or run 150 emergency ambulance calls as charge, must be a current member of a LFRD or a current career uniformed employee of MCFRS with at least one year of service prior to application

**EMS Company Level Operations** – 36 hours

**Course Description** – This course will equip the student with the knowledge and resources to appropriately mitigate the operational and procedural component of the medical emergency. It will address local, regional and state policies, protocols and procedures as well as the decision making processes needed to successfully manage emergency medical incidents.

**Prerequisite:** Rank of EMS Provider I.

**EMS Officer I** – 48 hours

**Course Description** – The student will obtain supervisory training in company/departmental emergency medical services operations and administrative responsibilities at the first line supervisory level. Upon completion of this course, the student will be able to effectively manage Human Resources; community/public relations; EMS company/departmental organization and administration, including budgets, reports, incident pre-planning, public EMS education, safety and emergency services delivery.

**Prerequisite:** Rank of EMS Provider III, EMS Company Level Operations or Strategies and Tactics.

**Fire Officer I** – 63 hours

**Course Description** – The student will obtain training in company operations and administration at the first line supervisory level. The student will be able to effectively manage human resources; community/public relations; fire department organization and

administration including: budgets, reports, planning, fire inspection, investigation, public education, emergency service delivery and safety.

**Prerequisite:** Rank of Firefighter III

**Fire Officer II** – 45 hours

**Course Description** – The student will build upon the knowledge they received in Fire Officer I class. The student will learn to manage resources, command incidents and integrate with other agencies.

**Prerequisite:** Rank of Fire/Rescue Lieutenant and Fire Officer I.

**Instructor I** – 30 hours

**Course Description** – Upon successful completion of this course, the student will be able to plan instruction using a variety of educational methods, teach diverse learners, evaluate course outcomes, and address the legal issues pertaining to training. Major topics covered in the course are: speaking before a group, safety, the instructor's role, legal considerations, the psychology of learning, instructional delivery, practical training evolutions and instructional media, testing and evaluation.

**Prerequisite:** EMT-B or Firefighter I and II courses or equivalency

**Instructor II** – 36 hours

**Course Descriptions** – To prepare the student to use instructional methodologies that address various learning styles; to plan and develop lessons and programs; to develop examination methods and forms; and to develop and maintain a record and reporting system. Major topics covered in the course are planning instruction, five-step process for planning and training management, needs analysis, course objectives, task analysis, lesson plan components, testing and evaluation.

**Prerequisite:** Instructor I, EMT-B or Firefighter I and II courses or equivalency

**Strategy & Tactics** – 45 hours

**Course Description** – This course uses a systems approach to guide the student through the process of problem identification and solution response. The course covers preplanning, building construction, size-up and scene control for simple and complex emergency incidents. It will guide the student through the command sequence and the seven basic strategies (RECEO-VS) Rescue, Exposures, Confinement, Extinguishment, Overhaul, Ventilation and Salvage. The student will learn how to implement strategies, tactics, tasks and assign Divisions and Groups to the initial companies. The sessions

will include case studies and scenario exercises using the table top in the Command Development Training Center.

**Prerequisite:** Firefighter I and II courses or EMT–B

### **Class A Apparatus Drivers Course** – 70 hours

**Course Description** – The MCFRTA Class A Driver Course training consists of 8 hours of classroom instruction and 62 hours of road and field instruction, for a total of 70 hours. This course is the first step in the driver training process for tractor drawn fire apparatus and will prepare the firefighter for driver operator training on Class A Fire Apparatus for the front driver position and the tiller position.

#### **Class A Driver Classroom Hours:**

Classroom hours for Class A driver training consist of an orientation, special features of fire apparatus, Maryland vehicle laws as well as vehicle and brake inspection checks. Handling the tractor drawn aerial portion of the truck driver training course covers vehicle start up, shut down and operation. The student also learns basic safe driving techniques, speed and space management, right and left turns, backing, parking, communicating with others on the road and special concerns. Hazards, emergency vehicle maneuvers, and collisions are topics also covered in classroom training with emphasis on entering and exiting roadways, city and night driving and driving in extreme weather. The driver training student is given collision avoidance guidelines and learns emergency maneuvers, skid control and how to deal with hazards on the roadway.

The Class A Driver Course also provides its students with interactive training using a virtual reality driving simulator. This innovative driver training tool puts the student behind the wheel and challenges them to drive through a virtual world of busy interstate highways, narrow two-lane highways, bustling city streets and dangerous mountain roads, providing them with "real-life" driving experiences.

#### **Class A Driver Field Training:**

The remainder of the Class A Driver Course time is spent learning the pre-trip inspection on the vehicle and how to conduct a MCFRS brake test. Students will complete practical skills for both the driver and tiller positions in parallel parking, successfully maneuver a Class A fire apparatus through a cone course and complete road driving using the Smith System for Space Cushion driving.

**Prerequisite:** Must be at least 20 years old and possess a valid Maryland Class B License, or out of state equivalency or Class B drivers course as required. Must provide a current certified copy of their state driving record. IECS certified, Rank of Firefighter

III and must provide a letter from your Chief or designee verifying being a Class B driver for at least 1 year. Three years MCFRS experience, MCFRTA Aerial Operator Course.

### **Class B Apparatus Drivers Course** – 70 hours

**Course Description** – The MCFRTA Class B Driver Training Course consists of 20 hours of classroom instruction and 50 hours of road and field instruction, for a total of 70 hours. This course is the first step in the driver training process and will prepare the firefighter for driver operator training on Class B Fire Apparatus.

#### **Class B Driver Classroom Hours:**

Classroom hours for Class B driver training consist of an orientation, special features of fire apparatus, Maryland vehicle laws as well as vehicle and brake inspections checks. It also covers vehicle start up, shut down and operation. The student also learns basic safe driving techniques, speed and space management, right and left turns, backing, parking, communicating with others on the road and special concerns. Hazards, emergency vehicle maneuvers and collisions are topics also covered in classroom training with emphasis on entering and exiting roadways, city and night driving and driving in extreme weather. The driver training student is given collision avoidance guidelines and learns emergency maneuvers, skid control and how to deal with hazards on the roadway.

The Class B Driver Course also provides its students with interactive training using a virtual reality driving simulator. This innovative driver training tool puts the student behind the wheel and challenges them to drive through a virtual world of busy interstate highways, narrow two-lane highways, bustling city streets and dangerous mountain roads, providing them with "real-life" driving experiences.

#### **Class B Driver Field Training:**

The remainder of the Class B Driver Course time is spent learning the pre-trip inspection on the vehicle and how to conduct a MCFRS brake test. Students will complete practical skills in parallel parking, successfully maneuver a Class B fire apparatus through a cone course and complete road driving using the Smith System for Space Cushion driving.

**Prerequisite:** Must be at least 20 years old and possess a valid Maryland Class C License, or out of state equivalency. Must provide a current certified copy of their state driving record. Must also provide a written statement from their Chief or designee, verifying they have been driving an EMS unit for 1 year. Must be on the current IECS. Rank of Firefighter II and have 2 years of MCFRS experience, MCFRTA Pumps & Hydraulics or Rescue Technician or Aerial Operator Course.

**Boat Operations** – 8 hours

**Course Description** – To provide the knowledge and skills to operate fire department boats and associated equipment

**Prerequisite:** Personal Data Sheet and current physical, both on file at the FRTA.

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*Asst. Chief R. Michael Clemens*  
Training Officer

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*Chief Steven E. Lohr*  
Fire Chief

***UPDATED: March 2014***