



UNIVERSITY of MARYLAND
MARYLAND
FIRE and RESCUE
INSTITUTE

**Emergency Medical Services Board and
SEMSAC Joint Session-January 10, 2023**

**Michael E. Cox Jr. MS, CFO, EFO, NRP
Executive Director**

MFRI Mission and Vision Statement

Mission

The Maryland Fire and Rescue Institute is the state's comprehensive training and education system for all-hazard responses. The Institute plans, researches, develops and delivers quality programs to prepare agencies and individuals to protect life, property and the environment.



Vision Statement

The Maryland Fire and Rescue Institute is and will continue to be a premier emergency services training and education organization by developing and delivering high-quality training. MFRI will constantly evolve to address developing trends and needs in emergency services training.



2022 Statistics

Emergency Services Programs

Emergency Services Programs	1,739
State Programs	1,273
Special Programs	361
Company Drills	72
Seminars	33

Students by Discipline

Students by Discipline	24,033
Fire	6,452
EMS	5,039
ALS	841
Rescue	2,011
Management	2,951
PDI	899
Hazardous Materials	1,483
Specialty	971
Company Drills	688
Seminars	492
Simulation Center	2,206

Students by Program

Students by Program	24,033
State Programs	19,896
Special Programs	2,577
Company Drills	878
Seminar	682

Student Hours by Program

Student Hours by Program	654,537
State Programs	584,844
Special Programs	49,675
Company Drills	2,130
Seminars	17,888

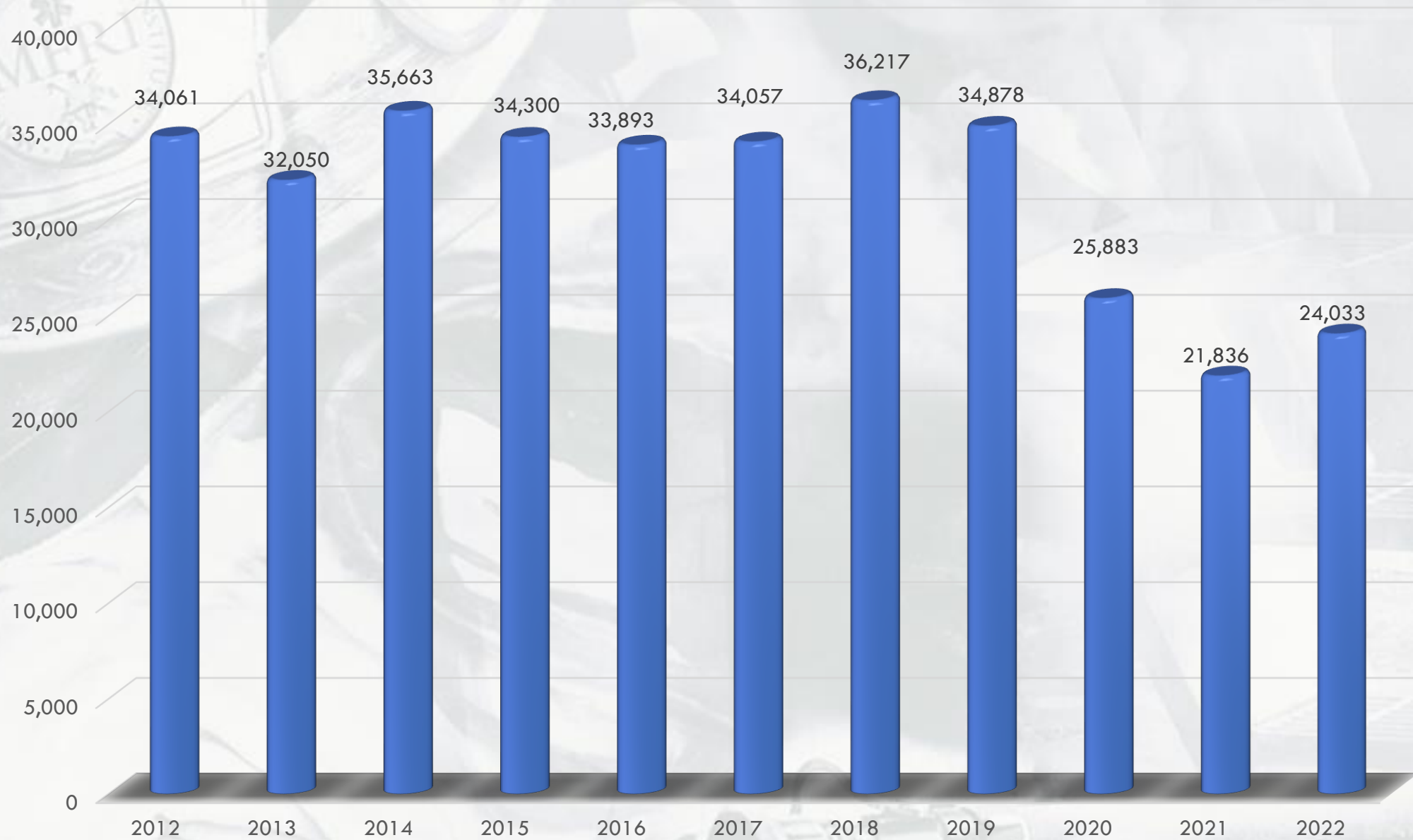
Certifications

Issued by the Maryland Fire Service
Personnel Qualifications Board, Inc.

MFRI Courses Eligible for Certification	49
Pro Board Certifications Issued	6,245
Concurrent IFSAC Certifications Issued	4,721
Maryland (MFSPQB) Certifications Issued	132



MFRI Student Enrollment History



2022 Operating Budget

MFRI 2022 OPERATING BUDGET

Number of Permanent Employees 62

Number of Contractual Employees 600+

PERSONNEL COSTS

Salaries & Wages \$ 6,657,265.00

Turnover \$ (145,702.00)

Fringe Benefits \$ 1,349,465.00

SUB-TOTAL \$7,861,028.00

Capital Equipment \$ 59,500.00

Communications \$ 157,500.00

Contractual Services \$ 432,631.60

Equipment Other \$ 32,000.00

Fixed Charges \$ 132,910.00

Grants/Subsidy/Distribution \$ 6,175.09

Land and Structures \$ 15,000.00

Operations & Maintenance \$ 193,400.00

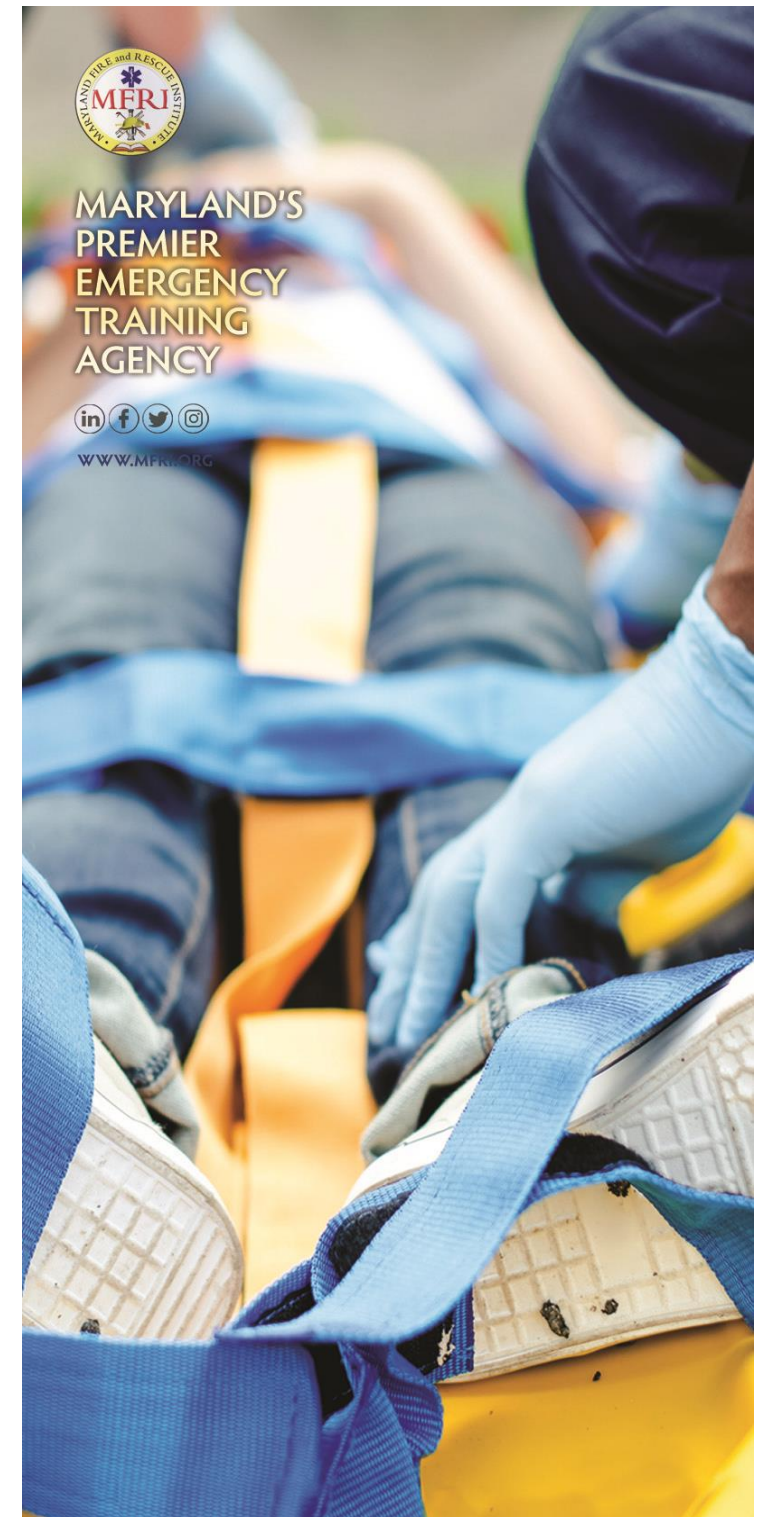
Supplies & Materials \$ 766,820.91

Tech & Special Fees \$ 7,500.00

Travel \$ 844,750.00

Non-Mandatory Transfer \$ 3,000.00

TOTAL BUDGET \$ 10,512,215.60



2022 Highlights

EMT Equipment Upgraded

MFRI's National Registry EMT pass rates are consistently above the national average.

To ensure continued student success, MFRI purchased new equipment which was added to teaching kits after instructor training concluded.

New equipment includes:

- Electronic blood pressure arms
- Pelvic binders
- Kendrick traction splints
- Adult and infant trach manikins
- Obstetric manikins
- Demo Dose simulated medications
- CPR feedback manikins
- Triage cards



Instructor Skills Programs Roll Out to Regions

Historically MFRI has conducted Instructor Candidate Skills Weekends at our College Park headquarters. These sessions were offered twice a year, spring and fall. In 2022, MFRI announced that skills weekends will roll out to the regions upon request. This effort reduces costs for the instructor candidates and makes the process more convenient. Several skills sessions have already been held and additional sessions are currently being scheduled.



2022 Highlights

MFRI Implements New Testing Software

MFRI recently transitioned to a computer-based testing system that also provides test-item analysis. While all students in each class are tested on the same questions, the exam itself can be scrambled into 26 different versions providing greater test security. After submitting the test, students can obtain their unofficial exam results immediately rather than having to wait until the next business day.



Fire 99 Program Updated

The Fire 99 PPE/SCBA program was recently updated and assigned a new course number. Fire 098 is now 12 hours long to enable students to spend more time wearing PPE and SCBA while performing skills.

Students will be required to successfully complete performance test items including donning and doffing PPE/SCBA, working in PPE/SCBA, inspecting SCBA, and calling a mayday.

2022 Highlights - EMT Program

COMBINED DATA – ALL COURSES

55 classes started in Fiscal Year 22

Of the 663 Students who have tested NREMT

ATTEMPT	MFRI STATS	MARYLAND STATS	NREMT STATS
Percent Passing NREMT 1 st Attempt	FY22- 73%	Calendar Year 2021- 71% Calendar Year 2022 to Date – information not available	Calendar Year 2021- 68% Calendar Year 2022 to Date – 70%
Percent Passing NREMT after 2 nd Attempt	FY22-83%	Information not available on public website	Information not available on public website

DATA WITHOUT HIGH SCHOOL CLASSES.

49 classes started in FY 22

Of the 613 students who have tested NREMT

ATTEMPT	MFRI STATS	MARYLAND STATS	NREMT STATS
Percent Passing NREMT 1 st Attempt	FY22- 75%	Calendar year 2021- 71% Calendar year 2022 to Date - Not available	Calendar year 2021- 68% Calendar year 2022 to date - 70%
Percent Passing NREMT after 2 nd Attempt	FY22 85%	Information not available on public website	Information not available on public website

HIGH SCHOOL CLASSES

6 HS Classes for FY 22

All have reached the NREMT Testing

Of the 50 students who tested NREMT

6 HS Classes for FY 22

50 students tested NREMR

80% Passed first time.

This is a significant increase from the old My Brady EMR program

Percent Passing NREMT 1 st Attempt	50%
Percent Passing NREMT after 2 nd Attempt	58%

Capital Project

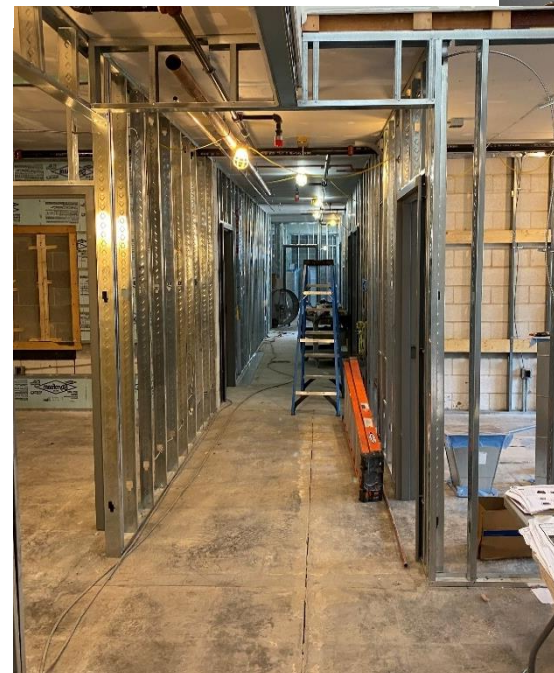
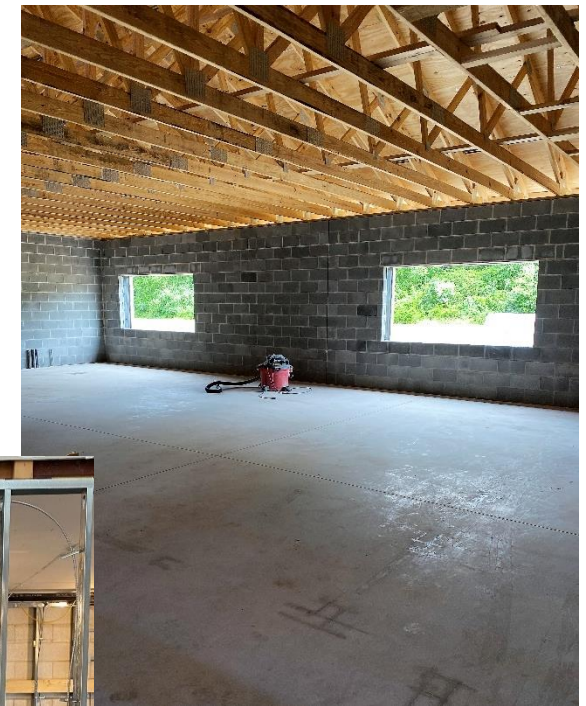
Western Maryland Regional Training Center Renovation

Serving Allegany, Garrett and Washington Counties, the Western Maryland Regional Training Center in Cresaptown, MD is undergoing a major renovation. The approximately \$8.5 million project is slated to be finalized by spring 2023.

Once the renovation is complete, the training center will feature:

- An administrative building that houses classrooms and is double the size of the previous structure
- A new and expanded storage building
- 50-square foot training pads for vehicles
- Completely new propane flammable gas and flammable liquids training areas
- A renovated burn building with new heat resistant linings
- A new pump training area
- A renovated drafting pit area
- An 18,000-gallon propane tank that will supply training fuel
- An upgraded staging pavilion with lighting and fans
- New roadways throughout the training area
- A milled and resurfaced parking lot

During the renovation, the Western Maryland Regional Training Center staff has been leasing space at Frostburg University.



Curriculum Updates

PILOT COURSES

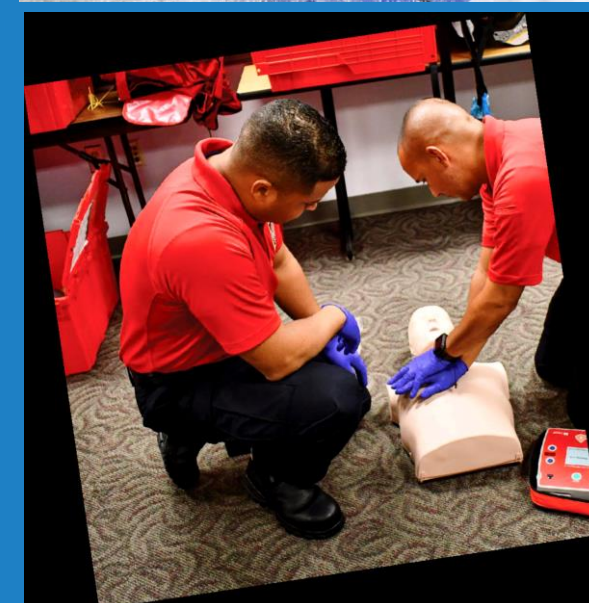
- Emergency Medical Responder*
- Instructor I*
- Instructor II
- Instructor III
- Fire Inspector I and II
- Fire Officer I through IV
- Marine Fire Fighting
- Airport Fire Fighting
- Emergency Vehicle Operator*
- Emergency Medical Services Officer I

* Three hours have been added to these courses for additional skills development.

COURSES CURRENTLY BEING REVISED

- Vehicle Extrication - Common Vehicle*
- Pumper Operator*
- Incident Safety Officer*
- Health and Safety Officer*
- Aerial Operator*
- Swift Water Rescue*
- Surface Water Rescue*
- Technical Rope Rescue**
- Confined Space Rescue**
- Trench Rescue**
- Vehicle Rescue - Heavy Vehicle**
- Structural Collapse**
- Live Fire Instructor**
- Fire Investigator**

* These courses are expected to move to pilot in the Fall of 2022.



Pearson VUE Testing

MFRI has administered 2,600 EMT and EMR Tests since becoming an Authorized Test Center.



 Pearson
VUE
Authorized
Test Center



Federal Grant Awards

Fireground Contaminant Prevention

The Federal Emergency Management Agency (FEMA) awarded a \$126,000 Fire Prevention and Safety Grant partnering the University of Maryland and MFRI to research fireground contaminant prevention. The 12-month study identifies the challenges of mitigating post-incident exposure to fireground contaminants and determining effective decontamination protocols.

The research team surveyed fire departments across the country assessing their decontamination protocols. They also held workshops with safety officers to hear firsthand about successes and challenges in developing, implementing and managing contaminate-prevention policies. Firefighter access to a second set of gear was identified as a key factor in the success of decontamination policies.

The study outlines how to quantify an exposure; proper PPE requirements; decontamination protocols; policy gaps; and training needs.



Assistance to Firefighters Grant

MFRI also was awarded an Assistance to Firefighters Grant (AFG) totaling \$558,199.

Created in 2001 to strengthen national preparedness and resilience, the AFG enables firefighters and other first responders to obtain critically needed equipment, protective gear, emergency vehicles, training, and the resources necessary to protect the public and emergency personnel from fire and related hazards.

MFRI is using the funds to purchase equipment to support firefighter training. Items being acquired include: a shoring kit, spray nozzles, respiratory protection, a fit tester, ladders, simulators, turnout gear, SCBA units and propane-fueled

Articulation Agreements



ALLEGANY COLLEGE
of MARYLAND



CECIL COLLEGE



Frederick Community College



**UNIVERSITY
OF MARYLAND
GLOBAL CAMPUS**



**college of
southern maryland**



**PRINCE GEORGE'S
COMMUNITY COLLEGE**



**ANNE ARUNDEL
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Questions?