

MONMOUTH COUNTY

FIRE ACADEMY

A Department of the Monmouth County Fire Marshal's Office



FIRE TRAINING COURSE CATALOG

Revised March 2020



COURSE REGISTRATION

Registration forms can be found at:

www.visitmonmouth.com

Go to “Departments” and click on Fire Academy, then click on “Academy Forms”

Registration forms can be emailed, faxed or mailed

EMAIL: smaloney@mcfmnj.org

FAX: 732-683-8978

Mail: Monmouth Co. Fire Academy

1027 Hwy 33 E

Freehold, NJ 07728



Fire Academy Training Course Catalog

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MISSION STATEMENT

The Monmouth County Fire Academy is dedicated to the safety, survival and well-being of the Firefighters of Monmouth County

and

will provide cutting edge, full contact fire service training through a standardized curriculum developed and implemented to ensure excellence in firefighting for the protection of the citizens of Monmouth County and beyond.



History of the Monmouth County Fire Academy



Fire Service education in Monmouth County began with the Monmouth County Fire College. The college consisted of six courses, all of which had to be taken in order to complete firefighter training. Instead of having a dedicated building, the Monmouth County Fire College rotated amongst six different locations around the County, typically being held in various fire departments.

Leonard A. Mack served as the Fire Marshal of Monmouth County from 1965 through 1973. Marshal Mack negotiated on behalf of Monmouth County with Naval Station Earle to obtain property for the County in order to build a fire academy. The Monmouth County Fire Academy was completed in 1972 where it still sits at its present location at 1027 US Highway 33 East, Freehold Township N.J. The original Fire Academy was a small, three bay building. When classes were held, the three pieces of apparatus housed in the building were moved outside to allow for chairs to be set up for the students. The Fire Academy was renovated over the years and eventually grew to 9,625 square feet. In 2001, research and funding began for a further renovation of the Fire Academy, which was diligently pursued by both Board of Chosen Freeholder Theodore Narozanick and Fire Marshal Timothy Smith. Renovations were completed in 2009, doubling the size of the building to 22,841 square feet in order to adequately house the Fire Marshal's Office, Fire Academy Staff, and serve the Fire Departments of Monmouth County.

In 2002, the Fire Marshal's Office decided to combine the National Fallen Firefighters Service, which is held annually in the month of October at The National Fire Academy in Emmitsburg, Maryland, with the Annual Monmouth County Firefighter Awards Day so that both the Fallen Firefighters and the Bravest in Monmouth County could be recognized by their peers. The first Annual Fallen Firefighters and Awards Day was held on October 6, 2002 in Union Beach at "Fireman's Park". The annual service was hosted by several fire departments around Monmouth County from 2002 until 2010. In October of 2018, what has become known as Monmouth County Fire Marshal's Office "Medal Day" was held at the Monmouth County Fire Academy where Fire Marshal Kevin Stout and the Board of Chosen Freeholders held a dedication for the newly constructed Monmouth County Fallen Firefighters Memorial Garden. The garden is home to sculptures, water features, plaques, and reflection benches where members of the fire service, family members, and the public can sit and quietly honor both those that have fallen in the line of duty as well as those that still dedicate themselves to the fire service today.



Contact Information:

- The Monmouth County Fire Academy is located at:
1027 Highway 33 East in Freehold Township, New Jersey
- Phone number: 732-683-8857
- Fax number: 732-683-8978.
- Mailing address:
1027 US Hwy 33 E
Freehold, NJ 07728
- Incoming calls to Academy trainees should be restricted to emergencies (illness, accident, etc.). Emergency messages will be delivered to a candidate immediately.
- **Important note:** If a candidate needs to telephone the Academy to report any lateness, absence, emergency, or other problem and is not able to speak to someone in person, the trainee shall leave a message on the main phone number answering system. The trainee shall then send an email to the program coordinator(s) (Firefighter I and II classes), or to: smaloney@mcfmni.org with all pertinent information.





GENERAL INFORMATION

Course Information

All training courses held during the daytime will begin at 8 a.m. and end at 4 p.m. Classes held during the evening will begin at 7 p.m. and end at 11 p.m. unless otherwise noted on the course announcement or specified by the course instructor. (Course announcement can be found on our website or our Facebook Page).

Registration and Fees

Registration for all courses at the Monmouth County Fire Academy are on a “first come, first serve” basis. Therefore we suggest that registrations be sent in early for all courses that have a maximum number of students allowed.

Fees:

- There is no fee for residents of Monmouth County to register for courses offered by the Monmouth County Fire Academy.

The following are fees for out of county students and departments:

- Firefighter I (cost per student): \$500.00
- Firefighter II (cost per student): \$400.00
- Combined Firefighter I/Firefighter II (cost per student): \$750.00
- Firefighter Advanced Courses (cost per student): \$50.00 per day
(*Not to exceed \$200 for any course*)
- Use of drillground (per department session): \$400.00 (**staff cost**)
- Delivery of field program per day: **Staff cost**

***Please note that any drill ground “no show” or last minute cancellation will result in a \$200.00 fee for both In-County and Out-of-County Departments.**

Class Full Notice

Once all seats in a particular class are full, a notice reading “CLASS FULL” will appear on the website next to the class name. The same notification will also be posted on our Facebook page.



Chief Officer/Training Officer Approval

You must have approval by a Chief Officer or Training Officer in order to register for any courses offered by the Monmouth County Fire Academy. There is a section on the bottom of the registration form for approval which **MUST** be filled out in order to be registered for a class.

Academy Entrance Requirements for Firefighter I and II

- All Firefighter I and Firefighter II candidates must be at least 18 years of age and a member in good standing with a fire department.
- An application must be handed in to the Academy complete with the signature of the Chief Officer from the department sending the candidate(s) to the academy.
- A medical form must be signed **and stamped** by a doctor's office clearing the candidate for the program.

Firefighter I and Firefighter II Certifications

A trainee shall be considered eligible for certifications when, among other requirements, the Academy Director affirms that:

- The trainee has achieved the minimum requirements for examination grades as set forth by the New Jersey Division of Fire Safety, completed all required certifications, completed all required class modules, and demonstrated an acceptable degree of proficiency during all drillground activities.

Certifications

Certificates of completion will be awarded on the final day of any course given by the Academy to students that have successfully completed all class requirements. All certificates are printed based on information that was given upon registration or information that has been saved on the Academy database. Please make sure that spelling is correct and handwriting is legible. If you have previously attended courses at the Monmouth County Fire Academy and have recently changed fire departments or have moved, please make sure that you notify Academy Staff so that the appropriate changes can be made to your personal information on the Academy database. The way your information is entered online will be the way that your certificate will be printed.

Accidents while at the Fire Academy

All injuries, no matter the severity are documented on Fire Academy forms. Serious injuries and/or injuries that require transport to a medical facility will prompt immediate notification of the injured person's Fire Department Chief Officer. Any firefighter suffering an injury must present a clearance for duty/training form from a medical facility in order to be permitted back to class.



Academy Guidelines

Cell Phone Use:

Cell phones should be set to silent mode or turned off, unless given further instruction by an Academy Instructor.

Smoking:

Smoking is prohibited within the Academy building and within any drillground areas. Smoking is permitted at designated smoking areas only. The designated smoking areas are at the two front entrances on Erickson Drive and at the South entrance at the Fire Marshal's parking lot. Smoking is NOT permitted within the Monmouth County Fallen Firefighters Memorial Garden. All cigarette butts shall be disposed of in the appropriate receptacles and shall not be thrown on the ground.

Breaks:

Breaks are given at the discretion of the instructors. Lunch breaks will be given for all 8 a.m. to 4 p.m. classes. The time frame of lunch will also be at the discretion of the instructors.

Class Attendance:

All students are required to attend **all** scheduled classes in order to receive certifications.

Dress Code:

Firefighter I and II:

- In the interest of student safety, all Firefighter I and II students are required to wear clothing that will enhance safety and well-being for the duration of their training. This clothing guideline is to be in effect for each and every Firefighter I and II training session regardless of what lecture or practical activity is listed for that day.
- For the safety of our students, all Firefighter I and II candidates are prohibited from wearing synthetic clothing. Synthetic clothing degrades rapidly upon exposure to extreme heat conditions. While all of our students are required to wear complete personal protective equipment (PPE), this additional requirement will further protect our students.
- No student (or their department) are to be subjected to the hardship of purchasing additional safety equipment such as uniforms, but students are required to be in non-synthetic clothing. Jeans, crewneck T-shirts, and/or sweatshirts are to be worn while at the Fire Academy. These are everyday items that are commonly cotton. These items wear well and offer a higher degree of safety without subjecting our students to financial hardships.
- Non-cotton (synthetic) items made of polyester such as spandex or Under Armour are not to be worn.
- Shorts, tank tops, or sleeveless shirts of any kind shall not be worn.
- No flip-flops shall be worn.
- Hats shall not be worn in the classroom.



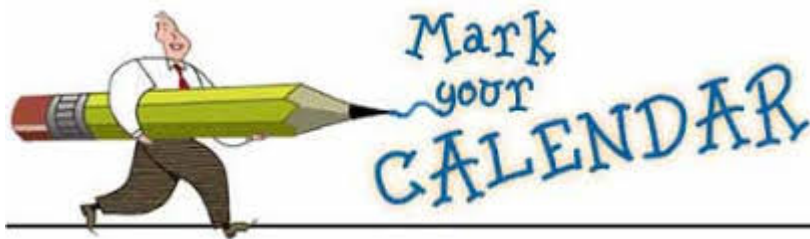
- Our requirements are in accordance with N.F.P.A Standard 1500 Fire Department Occupational Safety and Health Program, 2007 Edition, section 7.1.6.
- Students found in violation of this safety guideline may be sent home immediately and required to make up the training day. If the student is sent home, that day will count as an absence.

Fire Academy Advanced Classes:

- Appropriate attire shall be worn to all Academy classes
- Shorts, tank tops, or sleeveless shirts of any kind shall not be worn.
- Hats shall not be worn in the classroom.

Date Changes

Before registering for an Academy class, please make sure that you are able to attend on the date(s) listed on the course announcement. In the event that a course date needs to be changed after the course announcement has been made, the date change will be posted on our website as well as on the Academy's Facebook page. The Academy Staff will also make every attempt to send a mass email out to any individual enrolled in the class so please ensure that your email address is correct and legible on the registration form.





COURSE DESCRIPTIONS

NEW JERSEY STATE CERTIFICATION COURSES

Fire Fighter 1

190 hours

This course is for entry level firefighters. This class teaches basic firefighting techniques and skills in accordance to N.F.P.A Standard 1001 and N.J.A.C. 5:73 4.3. Firefighter 1 consists of both classroom lectures and skill-oriented drill sessions. Student performance is evaluated throughout the course with a final skill evaluation day at the end of the program. The New Jersey Division of Fire Safety's standardized Fire Fighter 1 test is given as the written final exam.

All Firefighter 1 students will receive the following certifications during the Firefighter 1 program:

- MCFA Firefighter 1 Certification (Firefighter 1 state certification must be applied for by the student upon completion of the course)
- Hazardous Materials Awareness (Upon passing a state examination)
- Hazardous Materials Operations (Upon passing a state examination)
- Firefighter's Response to Active Shooter
- Developmental Disabilities

All Firefighter 1 students will have to complete the following classes via internet-based classroom lessons, print out, and submit the certificate of completion in order to fulfill program requirements:

- ICS 100
- ICS 700
- Response to Terrorism

In addition, all students must obtain a CPR/AED card.

All candidates must have the following NFPA and OSHA compliant Personal Protective Equipment for structural firefighting:

- SCBA
- Spare air cylinder
- PASS device
- Turn-out Coat
- Turn-out Pants



- Structural firefighting boots
- Helmet/eye protection
- Protective hood
- Structural Firefighting gloves

Class Size: Maximum 32 Students per class



Fire Fighter 2

100 hours

This course is for firefighters that want to build upon what they learned in Fire Fighter 1 and learn more advanced techniques of firefighting. This is a 120 hour course that meets the requirements of N.F.P.A 1001, Standard for Firefighter Professional Qualifications. Upon completion of this course, students will have learned the skills and principles of effective communications, Incident command, firefighting equipment, flammable liquid and gas emergencies, use of foam, technical rescue, vehicle extrication, firefighter survival, advanced fire behavior, and ventilation techniques. Student performance is evaluated throughout the program. The New Jersey Division of Fire Safety's standardized Fire Fighter 2 test is given as the written final exam.

***NOTE:** The 1-200 Certification along with Firefighter 1 Certification and 3 years of service qualifies the student for IMS level 1 Certification.

***Pre-requisite: Fire Fighter 1**

Class Size: Maximum 24 Students

Combined Firefighter 1 and Firefighter 2

250 hours

This course combines the entry level course for firefighters as well as the next-step: Firefighter 2. It is designed to combine the Job Performance Requirements (JPR's) for both classes, allowing students to complete two major certifications in a shorter timeframe. Both classes teach basic firefighting techniques and skills in accordance to N.F.P.A Standard 1001 and N.J.A.C. 5:73 4.3. Students who are accepted into Firefighter 1 may opt (in writing) out of Firefighter 2, but no one will be admitted into this Firefighter 2 portion of the course separately. For further information, see the Firefighter 1 and 2 sections above.

Class Size: Maximum 32 Students per class

Fire Instructor Level 1

This is a 40 hour course that prepares the student to become a State Certified Level 1 Instructor based on NFPA 1041, Standard for Fire Service Instructor Professional Qualifications, and 2002 edition, specified at N.J.A.C. 5:73-5.2(C). There will be a written exam that must be passed to complete the course and qualify for the state certification.

Students will learn the following skills throughout this program: assembling course materials, use of instructional aids and evaluation tools, reviewing and adapting lesson plans, and learning the administrative record keeping functions of the instructor. All students will have to present a lesson to the class from a prepared lesson plan.

**TEXT BOOKS ARE REQUIRED, BUT NOT PROVIDED BY THE ACADEMY FOR THIS CLASS.*

All students must bring the 8th edition of the IFSTA Fire and Emergency Services Manual

Class Size: Maximum 24 Students

Fire Instructor Level 2

This is a 40 hour course that prepares the student to become a State Certified Level 2 Instructor. There will be a written exam that must be passed to complete the course and qualify for the state certification.

Students will learn the advanced skills for managing instructional resources, how to schedule training sessions, how to supervise and coordinate the activities of other instructors, evaluation of subordinate instructors, how to develop evaluation instruments, and how to analyze the results of student evaluations.

**TEXT BOOKS ARE REQUIRED, BUT NOT PROVIDED BY THE ACADEMY FOR THIS CLASS.*

All students must bring the 8th edition of the IFSTA Fire and Emergency Services Manual

**Pre-requisite: Instructor Level 1*

Class Size: Maximum 24 Students



Drillground Instructor

This one day course is required for anyone wishing to obtain or renew a Drillground Instructor Certification issued by the N.J. Division of Fire Safety. The intent of this course is to ensure that instructors understand the safety issues and adopted NFPA 1403 Standards inherent in SCBA/Smokehouse and Live Burn firefighting training. The students will be provided with a basic understanding of identifying and correcting unsafe situations as they occur and will review various safety concerns regarding drillground instructional activities and student performance criteria.

FEMA I-200

This is a 16 hour course that discusses the importance of an incident management system and the understanding and skills needed by emergency responders to use the system effectively. This course provides an overview of the incident command structure and works within ICS guidelines through scenario-based group exercises. Topics covered in this class are: Leadership and Management, Delegation of Authority and Management by Objectives, Functional Areas and Positions, Briefings, Organizational Flexibility and Transfer of Command.

This course meets the requirements of N.J.A.C. 5:75-6.1 for certification of Incident Management Level 1.

**Pre-requisite: ICS-100 & ICS-700*

FEMA I-300

This is a 24 hour course that builds upon FEMA I-200 and instructs on the next level of the incident management system. Scenario-based group exercises are used throughout this class to show students' effective application of the incident command system at this level. This course will cover the following topics: ICS Staffing and Organization, Transfer of Command, Unified Command functions in a multi-jurisdictional or multi-agency incident, ICS forms, Resource Management, and Interagency mission planning and procurement. This course meets the requirements of N.J.A.C. 5:75-6.1 for certification of Incident Management Level 2.

**Pre-requisite: ICS-200*

FEMA I-400

This is a 16 hour course that builds upon the ICS 300 level of incident management. Both lecture and interactive group scenarios are used to show students the effective uses of the level 400 incident management system at large events and emergency situations. This course is designed for the individual that will have duties that require the direct involvement in incident management or command at either a "field" Incident Command Post or in a city, county, or regional emergency operations center. This course meets the requirements of N.J.A.C. 5:75-6.1 certification of Incident Management Level 3.

**Pre-requisite: ICS-300*



Fire Officer 1

The 45 hour long Fire Officer series is designed to build the skills necessary to be an effective fire service leader. The Fire Officer 1 course is the first course in the series and is designed to meet the education and time requirements of N.F.P.A 1021, *Standard for Fire Officer Professional Qualifications, 3rd Edition*, for Fire Officer 1 and N.J.A.C. 5:73-8.2 qualifications for Fire Officer 1. Students who successfully complete the course will be eligible to take the NJ State Fire Officer 1 certification test. The certification test will be given approximately two (2) weeks after the last day of class. This course content will include a mixture of lectures, case studies, and classroom exercises. The goal is to stimulate classroom interaction centered on what we should be doing versus what we are actually doing as a company officer. This course acquaints the student with the role of the company officer in a fire department and introduces basic management and leadership theories, practices, and functions. Other topics include firefighter health and safety, managing resources, planning and readiness, fire prevention, building construction, and risk management. The course concludes with an introduction to the basic principles and methods associated with fireground tactics and strategy as required of the company officer.

**Pre-requisites: Firefighter 1 and 3 years of service*

Class Size: Maximum 30 students

REQUIRED ANNUAL TRAINING

Bloodborne Pathogens/ Right To Know/Hazardous Material Refresher (BBP/RTK/HazMat)

This is a 3 hour refresher course that is required for all first responders to take annually.

The Academy will no longer offer this course in the classroom, but will make the PowerPoint available via our website for Departments to train/ document their personnel. A Train-the-Trainer will be offered each year and updates will be addressed and the PowerPoint revised.

Bloodborne Pathogen: The information covered in this course is in compliance with OSHA 29 CFR 1910.1030, NFPA 1581, and New Jersey Public Law 100-607. This course covers KSA requirements, routes of transmission, infectious disease types, and proper exposure protocols for treatment, follow-up and documentation. Further information is provided on universal precautions, engineering, work practice controls and the Ryan White Act.

Right To Know: Information in regards to RTK will include the NJ RTK Act and compliance required under NJ and Federal Law. This includes information required by the OSHA Hazardous Communications Standard (HCS) and RTK Act 29CFR 1920.120. This course also meets the NJ PEOSH HCS and RTK Act in compliance with the NJ Department of Senior Services, the NJ DEP, and the NJ Dept. of Labor. The course covers workplace RTK requirements and protocols in regard to product labeling and documentation, use and familiarization with Safety Data Sheets (SDS) and employer requirements in regard to labeling and the RTK survey under NJ Public Law 1983 C315.



Hazardous Materials: This section covers refresher requirements addressing the Global Harmonized System (GHS) and OSHA requirements for safety data sheets, GHS labeling, and pictographs, classifications of hazardous chemicals, and chemical safety in both the work place and the emergency environment. Further attention is given to chemical exposure including the routes of entry and the physiological dangers of hazardous chemical exposure.

ADVANCED CLASS OFFERINGS

***Firefighter 1 certification is required to take any and all Advanced Class Offerings. Additional course prerequisites will be listed at the bottom of the course description.**

Active Shooter: F.D. Response

This course will address Fire Department response to an active shooter incident and will incorporate the challenges that commanders on the scene will have to face in the mitigation of such a dynamic situation. The course will also stress fire department roles and responsibilities and discuss who is in charge at such an incident. Establishment of the incident command system as well as command, control, and accountability procedures upon arrival are integral topics also covered in this course. The all important aspect of interagency collaboration and coordination of command and control will also be stressed. The course will provide an awareness to the command staff of the importance of MOU's, with agencies in their respective AOR's, development of department SOP's, and exercising those plans on a regular basis.

Advanced Building Construction

This class builds upon Firefighter 1 training and addresses today's construction concerns as well as the increasing complexity and challenges of 21st century building construction methods and materials. This class will focus on the recognition of the potential for unexpected building conditions faced by first responders.

Topics include: The 5 major types of building construction, significant issues by construction class, new innovations in construction practices, lightweight materials and engineered structural components, large residential (McMansion) construction issues, podium construction issues, and command considerations regarding today's construction problems.

Advanced SCBA

This course goes beyond SCBA use and introduces the student to air management awareness and techniques. 20 hours are dedicated to hands on techniques which include air management techniques (Reilly and Skip Breathing), air consumption rate and Mayday review drills as well as a full night dedicated to the UCANA drill. Further training focuses on reduced profile and entanglement maneuvers and the negotiation of same. Finally, a full day is dedicated to Confidence and Team Skill courses. The main focus is on air management as it applies to real world operations.

Class size: Maximum 20 students



Building Construction Refresher

This course will focus on building construction issues that firefighters must be aware of to operate more safely in the buildings we are entering. Discussed will be fire spread concerns inherent to the five types of building construction, as well as structural deficiencies in which all officers and firefighters must be aware of. Renovations, vacant buildings, and those being constructed with substandard materials will also be covered. Strategies outlining how to address these buildings and their idiosyncrasies will be a further focus point, offering solutions to address the concerns discussed. If you or your department has not reviewed building construction in a while, this course is for you.

Calling the Mayday

This eight hour lecture and Hands-on course will address not only guidelines of how to call a Mayday, but more importantly, *when* to call a Mayday. The course is designed to raise awareness and prepare firefighters to react properly when faced with a life-threatening situation on the emergency ground and take actions to both protect and save themselves. Each student will have the opportunity to work through simulated Mayday situations during the hands on evolutions in our Mayday survival course.

Class size: Maximum 20 students

CEVO III (FIRE)

This course will show fire apparatus operators how to use defensive techniques to maneuver safely through traffic under severe time constraints and stress. A must for private, volunteer and municipal fire personnel, this course promotes critical thinking in pressure situations. Discussion will include comprehensive coverage of collision-prevention techniques, including cushion of safety, scanning, vehicle positioning, handling blind spots, and parking procedures. Further covered are a wide range of other safety-related topics including vehicle inspection, vehicle handling and design characteristics, emergency and non-emergency driving differences, and safety at the scene

Chief Officer: Mastering Strategic Fire Ground Challenges

This interactive 3-hour course will address issues, concerns, and situations encountered by Chief-level Officers in the execution of fire ground command. Subject matter will include preparation, response, arrival and size-up, strategic decision-making, and the challenges and confrontations that may occur that require command-level decisions. Officers will come away with a better perception of how to both recognize and address issues that affect the ability to maintain control of the fireground while ensuring the safety and well-being of all participants.



Chief Officer: Mastering Supervisory Challenges

This interactive 3-hour course will address issues, concerns, and situations encountered by Chief-level Officers in the execution of day to day duties and challenges. Subject matter will focus on the Full Contact Leadership mantra of maintaining the “in-service and ready status” of their Command at all times. The responsibilities of the Chief-level leader/supervisor will be discussed using a wide and varied mix of scenarios designed to arm the Chief-level Officer with the tools required to execute their duties in both hard and soft environment challenges.

Command, Control, and Accountability

This presentation is aimed at all officers, newly installed or promoted as well as those moving up the ladder to higher ranks. We will base our objectives on what it takes to be an effective officer and an integral part of the organization. Discussed will be the utilization of command boards and how the Accountability Officer and Incident Commander can maintain a cooperative and effective approach to the critical priority of fireground safety. Company and Battalion level integrity and accountability will be a focus, and discussion in this regard will include proper decentralization of the fireground to maximize information gathering, accountability, and safety. PAR's will be discussed as well as Safety Officer Duties and Rehab guidelines. The Officer's role in supervision will also be addressed in order to meet our highest priority-- “Get ‘em in safe, work ‘em safe, and get ‘em out safe”.

Common Operational Dangers

This course covers “common” operational safety issues, tactical breakdowns, as well as their causes and consequences. We will address building search (for both basic and “get out fast” situations), searching above the fire, V.E.I.S. Operations, and advancing hose lines. Also covered are roof operations and the dangers of cornices and shafts. The class addresses both the viewpoint of the Incident Commander as well as that of interior firefighters and Officers in regard to both injury and disorientation prevention during common operations.

Company Officer: Mastering Supervisory Challenges

This interactive 3-hour course will address issues, concerns, and situations encountered by Company-level Officers in the execution of day to day duties and challenges. Subject matter will focus on the Full Contact Leadership mantra of maintaining the in-service and ready status of their Command at all times. The responsibilities of the Company-level leader/supervisor will be discussed using a wide and varied mix of scenarios designed to arm the Company-level Officer with the tools required to execute their duties in both hard and soft environment challenges.



Company Officer: Mastering Tactical Fireground Challenges

This interactive 3-hour course will address issues, concerns, and situations encountered by Company-level Officers in the execution of fireground duties. Subject matter will include preparation, response, arrival and size-up, tactical decision-making, and the challenges and confrontations that may occur in the firefight. Students will come away with a better perception of how to both recognize and address issues that affect the ability to maintain control of a situation while ensuring the safety and well-being of their assigned subordinates.

Confined Spaces Awareness

This awareness-level course is intended for any emergency response personnel who might be required to respond to an incident involving a confined space. The material is presented in order to educate response personnel on how to protect themselves from potential hazards. The course, which was developed by the New Jersey State Police OEM Hazardous Materials Emergency Response Planning Unit, provides the student with a basic understanding of how to define and identify a confined space. Emphasis is placed on hazard recognition and the dangers associated with confined spaces. Various guidance and regulatory standards will be discussed. Case histories will be used to illustrate the potential dangers of confined space entry and rescue. A review of confined space rescue procedures is presented to the student.

Elevated Structures

This course analyzes the impact that elevated homes will have on firefighting tactics when responding to these types of structures. In the aftermath of Hurricane Sandy, elevated structures have become more popular at the shore and on the bays along the New Jersey Coastline. Alternative tactics are required to meet the challenges presented by these fire incidents. If you respond to areas where these structures are being built, you cannot afford to miss this class.

Elevator Rescue and Emergencies

Emergency personnel with inadequate training in responding to stalled elevators are exposed to an increased risk of injury and death to both the victims and themselves. Learn how to safely and effectively remove passengers from stalled elevators as well as basic elevator procedures. Topics include nomenclature, safety, how an elevator functions, construction, elevator safety devices, possible equipment needed, initial response steps, lock-out/tag-out procedures, elevator doors--use of hoist way door keys/pick tools, poling, and firemen service (phase 1/phase 2). **Requesting departments are urged to secure an elevator-equipped building for the hands-on/demonstration portion of the course.*



Engine Company Tactics for the Pump Operator

This lecture begins with a short review of the basics of engine company tactical and pumping operations/pump discharge pressure guidelines. The balance of the class is a guided discussion in which situational conditions are introduced for consideration. The students, through discussion, brainstorming, and past experience develop the solutions. These discussions are a valuable way for newer members of a department to gain knowledge from the more senior members as solutions are discussed. All students will add to their “troubleshooting Profile” in this class.

Firefighting Operations: Single & Multiple Family Dwellings

This course is designed to build upon the lessons from the Strategic Six course, and to apply these lessons to incidents involving residential and multiple dwellings. Topics to be covered include: the types and layouts of these dwellings, modern construction innovations that affect fireground decision-making, and both strategic and tactical activities. Further discussion will include specific firefighting issues that can be expected at these incidents in regard to fire behavior and tactical considerations. A table top scenario will be included to discuss and reinforce lessons learned.

Fire Police

This program prepares students to function as fire police officers with a focus on safety. The student will understand how to perform the basic duties of the position as well as gaining an understanding of the laws and regulations affecting the performance of such duties. The course is presented in lecture, power point, and video formats utilizing the N.J. Division of Fire Safety Fire Police Basic course manual.

First Due: Your Role in Successful Fire Investigation

This course will offer the student an understanding of the responsibilities that the first due responding companies face at a working fire as it pertains to “Preserving the Scene” for the fire investigator. From the initial alarm until the last rig pulls away, this course will discuss your role through the eyes of the investigator in determining the origin and cause of the fire.

Full Contact Leadership

This course will address Officer and departmental responsibility as it relates to the mantra of “The hardest work is done before you arrive”. We will examine foundation level reasons for emergency ground failures and discuss organization level controls and mechanisms to address and prevent the same. Departmental and company level expectations will be a focus of this discussion pertaining to why departments fail in the hard environment and the relationship this failure has to the soft environment. There will be a major emphasis on the importance of the “nothing showing environment” and its impact on the “something showing environment” with a “what you permit you promote” philosophy. The class rounds out with a discussion on the tenets of Full Contact Leadership, offering Nugget-type tips for survival and success.



Full Contact Training

This class is for all Officers--those that are in charge of a Training Division, Company Officers who are charged with the responsibility for training their personnel and Chief Officers who must plan, organize, and supervise the training. Traits of a successful instructor are discussed as well as the need to know your students. Out-of-the-box and creative motivation are urged, and many training ideas are covered including interagency training considerations. Team-building drills are covered and the benefits of on-scene drills are discussed. Included is a tutorial for a trainer on more effective ground ladder operations through target identification and immediate selection, positioning, and raising of ground ladders. Finally, the class will cover supervision in training and the proper documentation related to a training program. If you are looking for training ideas, this is the place to be.

Garden Apartment Firefighting

This class will identify specific characteristics that make fighting fires in this type of structure different than other residential structures. Topics that will be covered include occupancy comparisons, construction characteristics, fire spread and collapse potential, size-up and decision-making, engine and truck company considerations, and command concerns and considerations.

Handline University

This 16-hour all hands-on live fire course will cover the art and skill of sizing-up, choosing, deploying, and operating handlines in a variety of different situations that may be encountered on the fireground. This class will cover:

- Handline Stretch Review
- Handline Management
- Courtyard Stretch
- High Rise Stretching
- Flowing while Advancing
- Bulk Bed Stretch
- Upper Floor Stretch
- Foam Operations

Class Size: Maximum 16 Students

Haz Mat On-Scene Commander

This course has been designed specifically to address the requirements imposed by the federal statute for On-Scene Incident Commanders. The requirements imposed on this particular functional level definitely have major implications for emergency response agencies; non-compliance could produce serious ramifications for an organization in terms of liability and negligence of duty. The classification of On-Scene Incident Commander incorporates all personnel who may be expected to assume control of an incident. This includes all Chief Officers, Fire Captains, and Acting Captains.





Incident Safety Officer

The 16-hour NFPA 1521 Incident Safety Officer course is a part of the New Jersey State Fire Officer requirements and provides students with a solid foundation and knowledge to identify and analyze safety concerns and to communicate recommended solutions to the command authority. The class focuses on emergency scene operations using the Incident Command System (ICS). The course will further cover the role of Department Health and Safety Officer (HSO) and the scope of the duties required for the position.

Large Diameter Hose Strike Team Leader

This course is intended to prepare the student to serve in the role of a Large Diameter Hose (LDH) Strike Team Leader during a fireground deployment. During three hours of classroom instruction the students will learn the functions and responsibilities of an LDH Strike Team Leader, how to utilize a written Incident Action Plan and ICS forms, how to set up and supervise an LDH relay operation, how to trouble-shoot and mitigate water flow problems without shutting down the water flow to the fire scene, and proper demobilization procedures.

Not Your Father's Truck Company Operations

This 20-hour course covers several topics as it pertains to department and individuals that will be working in a Truck Company capacity. This class is designed to be interactive in both hands-on and lecture portions of the class. Open dialogue and "brainstorming" is highly encouraged during our instructor led discussions and lecture portions of this class. There will also be a group competition that will help enforce the concept of working as a team.

This course will cover the following topics:

- Forcible Entry
- Primary Search

- Ground Ladders
- Water Can Operations
- V.E.I.S.
- Roof Operations

Class Size: Maximum 24 Students



Pump Operations

This 24 hour course is intended to help the student meet the requirements on *NFPA 1002 Standard for Apparatus Driver/Operator Professional Qualification 2017 edition*.

The following topics will be covered in classroom sessions:

- Pump Operators Duties and Responsibilities
- Pump Principles and Construction
- Pump Peripherals
- Water Supply
- Pump Operations
- Discharge Maintenance and Trouble-shooting
- Hydraulic Theory and Principles
- Flow and Friction Loss
- Pump Discharge Pressure Calculations

The students will then receive hands-on experience as a Pump Operator by pumping a fire engine from a static source at draft, and from a pressurized source (fire hydrant), as both a supply engine and an attack engine during tandem pumping.

Class Size: Maximum 40 Students



Radio Communication and Scene Reporting

This course addresses Command, Division, and Company level radio reports. Common mistakes regarding radio reporting are discussed. Suggested format for scene arrival and progress reports are included as handouts. This is an interactive course that involves the students in transmitting radio reports from fireground photos, videos, and supplemental information regarding the incident.

Rapid Intervention Team (RIT) Awareness

This program provides an overview of the functions of a Rapid Intervention Team (RIT). Program reviews the NFPA Standard 1561 on Fire Department Incident Management System and NFPA standard 1500 on Fire Department Occupational Safety and Health Program which focus on why a Rapid Intervention Team is required, who makes up the RIT personnel, establishing a (RIT) unit with written guidelines, minimum equipment requirements and table top scenarios using (RIT) teams.

Rapid Intervention Team Operations

This 24 hour course will address current techniques and procedures in RIT operations. This course is all hands-on and extremely physically demanding. This program meets and exceeds the State's guidelines for "Rapid Intervention Team".

Topics Covered:

- SCBA/Mask Confidence Skills
- Below Grade Rescue
- Upper Floor Rescue
- Downed Firefighter Rescue Drills (Nance, Pittsburgh, Denver Drills)
- Scenario-based exercises

Students must bring the following with them to every class:

- Proper PPE
- SCBA
- Spare Cylinder

**Pre-Requisite: NJ State Firefighter 1 and RIT Awareness*

Class Size: Maximum 16 Students

Reading Smoke and Predicting Volatile Fire Behavior

This is a three hour class that goes deeper into fire behavior as related to ventilation/anti-ventilation, flow paths, and overall operations on the fireground based upon the officer's size-up. It will also cover flashover, backdraft, and smoke explosions in detail. All of the topics covered will be brought together at the end of the session with some table top discussions.





Ropes and Rigging I (RIT Operations)

This 8 hour course is part 2 of the Academy RIT Certification and focuses on simple systems designed to be used in RIT situations. A familiarization with rope and hardware is included and students will work in teams to build both 2:1 and 3:1 mechanical advantages. Packaging skills and basic horizontal rope rescue operations are taught and designed to move a victim or firefighter from an area of danger to an area of safety.

Ropes and Rigging II (Confined Space Rescue)

This more advanced 8 hour rope rescue course explores complex rope rescue operations applicable to such technical rescue incidents as confined space and low angle rescue operations. Tripod rigging and confined space technical rescue equipment are taught as well as tactical rope management, coordination, and communication. 3:1 and 4:1 mechanical advantage systems are introduced and advanced SKED packaging are addressed.

**Pre-Requisite: Ropes and Rigging I*

Ropes and Rigging III (High Angle Rescue)

This 8 hour course explores rope rescue operations applicable to such technical rescue incidents as high and low angle rescue operations. Main line/belay line, changes of direction and attendant technical rescue equipment are taught, as well as tactical rope management and elevation change coordination/communication. 3:1 and 4:1 mechanical advantage systems are introduced, advanced packaging, and the rescue attendant position are explained and executed.

**Pre-Requisite: Ropes and Rigging II*

Strategic Considerations for Ventilation

Many a fireground has gone bad due to the uncoordinated or lack of proper, timely, and coordinated ventilation. More buildings are burned down due to this failure than due to any other tactical fireground operation. This class which will focus on the proper and disciplined coordination of fireground ventilation operations will also include the discussion and practical application of the finding of the "UL Ventilation Studies" and how it affects our operations. Types of ventilation as well as the difference between venting for life and venting for fire will be discussed. Additionally, both peaked and flat roof vertical ventilation will be discussed. Roof safety guidelines will also be included. Finally...Vent, Isolate, Enter, Search operations will be extensively covered. A must for those who assign and supervise ventilation, those who conduct ventilation, and those who will be able to put out the fire a little easier and safer because of proper ventilation.

Fire Officer Tactics Series

These courses make up a 24-hour offering if all are taken and are part of the New Jersey Fire Officer requirement.

Private Dwellings

This course covers various types of private dwellings from a building construction and both a fire spread and structural concern viewpoint. Also discussed are both firefighting concerns and life safety concerns inherent in this type occupancy. Issues such as combustible exterior walls and exposure control as well as the need to protect the interior stairs and bedrooms are also discussed. Strategic considerations and interior fire control factors are discussed to assist the fire and command officer in proper decision-making on the fireground. Engine and Ladder Company tactics such as line placement, search, and VEIS operations are covered as well as tactical considerations common to these occupancies.

Multiple Dwellings

This course covers various types of multiple dwellings from a building construction and both a fire spread and structural concern viewpoint. Also discussed are both firefighting concerns and life safety concerns inherent in this type occupancy. The presence of light and air shafts and fire control issues regarding same are discussed as well as comprehensive roof operating guidelines. Strategic considerations and interior fire control factors are discussed, with the point of entry and the fire escape rule of thumb explained in detail to assist the fire and command officer in proper decision-making on the fireground. Engine and Ladder Company tactics are discussed as well as safe and effective operational guidelines for the roof firefighter.



High Rise Operations

This course covers the characteristics of high rises, both residential and commercial. Also covered are both the firefighting concerns and life safety concerns inherent in this type occupancy. A comprehensive look at command and control as well as control point establishment and management is included. Strategic considerations and interior fire control factors are also discussed, with the point of entry rule of thumb explained in detail, to assist the Command and Company Officer in proper decision-making on the fireground.

Contiguous Structures

This course covers various types of contiguous (attached) structures from a building construction and both a fire spread and structural problem viewpoint. These include row houses, attached multiple dwellings, townhouse structures, garden apartments, and condominiums. Broken into old and new style contiguous structures, both firefighting concerns and life safety concerns inherent to each are discussed. Issues such as combustibile interior walls, lightweight construction, cockloft and lateral fire spread prevention strategies and tactics are covered. Strategic considerations and interior fire control factors are also discussed and explained in detail to assist the fire and command officer in proper decision-making on the fireground.

Strip Mall Firefighting

Strip malls and tax payers can be found nearly anywhere in Anytown, USA. These occupancies provide various commercial goods and services, and at times include residential living areas above the commercial areas. These structures possess an array of hazards that can injure and kill firefighters working inside these occupancies. This program was developed to aid firefighters in operating safely during alarms involving these occupancies.

Topics include: Defining a strip mall and taxpayer, dangers involving these spaces, hazards associated with each structure, construction issues, storage issues, the occupant factor, size-up for various fire locations, structural fire attack, and case history review and discussion.

Commercial Occupancies

This course covers various types of commercial occupancies and the firefighting and life safety concerns inherent in each. The requirement for occupancy-specific tactics such as lifelines and large diameter handlines as well as auxiliary appliance support is discussed. Further, content-specific concerns are pointed out and the need to properly pre-plan are emphasized. Strategic considerations and interior fire control factors are also discussed and explained in detail to assist the fire and command officer in proper decision-making on the fireground.



Tactical Thermal Imaging for Size-Up and Decision Making

This 3 hour class breaks down the actual technology used in today's cameras. Focus is placed on thermal imaging capabilities and limitations, image interpretation and how it applies to size-up, and TIC uses that go beyond firefighting and how they can be utilized in various emergency service responses.

The "Strategic Six": Decisions for Success on the Fireground

This six hour course is designed to arm the first arriving Company officer with the required tools to make successful decisions from the outset of operations and setting the tone for a successful outcome. Curriculum will focus on the "Strategic Six" objectives and priorities of: today's fireground, today's fire behavior considerations, how it affects size-up, strategic decision-making, resource allocation, and tactical assignment. Further discussion will focus on fireground shortfalls and how to recognize the cues to avoid them. This class is a must for any Company Officer, but especially critical for the new Officer.

Traffic Incident Management

Traffic Incident Management (TIM) Responder Training brings police, firefighters, DOT, towing, medical personnel, and other incident responders together to engage in interactive and hands-on incident resolution exercises. Learning to coordinate response activities and optimize operations is vital to responding effectively in the field and to building a unified national practice on incident management.

Vacant and Abandoned Buildings Awareness

Operating at a vacant or abandoned structure is inherently more dangerous than an occupied structure. This course describes preplanning, incident command decisions, and proper security for these buildings and incidents involving them. This class should be attended by firefighters responding on first arriving units making incident command decisions on a scene.

Water on the Fire

This 12-hour course, based on recent UL/NIST research introduces the student to the combination (transition) attack through both classroom (4 hr.) and practical exercise (8 hr.) Students, while understanding that the fire does not know where the water is being applied from, will be taught to recognize exterior tactical opportunity which will include practical exercises showing exterior heat reduction techniques coordinated with the traditional interior attack. Evolutions will involve first and second floor fires utilizing the technique of ceiling-to-wall water application and cooling through the use of both hand line and extinguisher use. This cutting edge 21st century firefighting using age old techniques with a new twist, reinforces the concept of "Nothing ever got worse by putting water on the fire"





DRILLGROUND ACTIVITIES

BURN BUILDING FEATURES

The Monmouth County Fire Academy has two burn buildings on the property. Our newest Burn Building is two-stories with a four-story tower. This building features four Class A burn rooms, a standpipe in the tower for high rise operations, 5 forcible entry props, and a variety of fire attack options. Our original Burn Building is also two-stories with a four-story tower. This Burn Building features one Class A burn room and a standpipe in the tower for high rise operations.



HANDS-ON ACTIVITIES AND LIVE BURNS

Drillground Activities offered by the Monmouth County Fire Academy:

- Aerial Operations
- Car Fires



- Drafting
- Elevated Structure Burn
- Extinguisher (Water Can) Operations
- Forcible Entry
- High Rise Fire Operations
- Knots & Hoisting
- Laddering
- Live Fire Attack
- Live Fire Search and Rescue
- Mask Confidence
- RIT Operations
- Roof Ventilation using our Roof Prop (Flat Roof or Peaked Roof)



- Vehicle Extrication
- VEIS Operations



DRILLGROUND ACTIVITY GUIDELINES

- Drillground activities must be scheduled at least three weeks in advance, and is done on a “first come, first serve” basis or as directed by the Academy.
- Drillgrounds can be scheduled for weekdays Monday-Friday, or weeknights Monday-Thursday. (Weeknight drillgrounds run from 7:00 p.m.-10:00 p.m.)
- Weekend drillgrounds are run based on facility availability.
- Cancellation of a drillground activity must be done 24 hours prior to the scheduled activity. Failure to do so can result in a late cancellation/no-show fee. (*Incident weather condition cancellations are at the discretion of the Academy.*)
- Any Department requesting a Car Fire or Vehicle Extrication drillground activity will be responsible for both the delivery and removal of any and all vehicles used.
- Departments requesting the use of the Roof Prop must bring six 4' x 8' x ½" or ¾" plywood (not particle board or OSB) to the drill.

Drillground request forms, and additional guidelines and rules, can be found on our website:
<https://co.monmouth.nj.us/page.aspx?ID=4844>

(or follow the steps on the “Course Registration” Page to access our website)

****It is strongly recommended that Departments use the “Scenario Guideline Burn Menu” to plan their evolutions. This can be found on our website in the Drillground Section.***





JUNIOR FIREFIGHTER PROGRAM

Our Junior Firefighter Program is a program which provides those from the ages of 14-18 who wish to pursue a firefighting career with an introductory education of Firefighting basics. The goal is to educate and prepare the Junior Firefighters to take the Firefighter 1 class upon turning 18 years of age. Therefore most of the topics covered in Firefighter 1 program will be covered in some capacity in the Junior Firefighter Program (with the exception of live fire activities). Some of the topics covered during the Junior Firefighter sessions include (but are not limited to):

- Firefighter Safety and Health
- Firefighting tools and equipment
- Firefighting response objectives

Junior Firefighting sessions take place every second Wednesday of the month and start at 7:00 p.m. Sessions last approximately 3 hours long. Fire Department mentors are welcome to accompany Junior members to the sessions.

