



Auburn Fire Rescue
47 Auburn Street
Auburn, Massachusetts 01501
Phone 508-832-7800
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Stephen M. Coleman, Jr.
Fire Chief

Live Burn Training

Purpose:

To establish guidelines that apply to all live burn training exercises conducted by, and or sponsored by the Auburn Fire Department in or at structures or sites owned or controlled by the Town of Auburn.

Definitions:

Acquired buildings: A structure not specifically designed for live fire training exercises acquired for that purpose.

Demonstrations: A practical showing, by example of how a principle is applied or a method is utilized. The area of the demonstration shall be exposed to fire, smoke and or products of combustion.

Exercise: A live fire evolution or demonstration.

Evolution: A set of prescribed actions that result in an effective fire ground activity. The area of the evolution shall be considered that the area in which participant's may be exposed to fire, smoke and/or products of combustion.

Fire Department Personnel: An official member of an organized municipal fire department or fire district that is a minimum of 18 years old.

Hours of Operation: The Auburn Fire Department training facility is available everyday of the week between the hours of 8:00 am to 10:00 pm.

Instructor: A member of the Auburn Fire Department Training Division, or a member of a recognized municipal fire department who is authorized by the head of the AFD Training Division. An Instructor must possess a certificate from the Department of Fire Services which recognizes the member as successfully completing Fire Instructor training and poses certification as a Fire Instructor I by the Massachusetts Fire Training Council.

Instructor Aid: A member of the Auburn Fire Department or a recognized municipal fire department whose primary responsibility is to provide assistance at live burn training. The Instructor Aid must poses certification as a Fire Fighter I/II by the Massachusetts Fire Training Council.

Instructor-In-Charge: An Instructor of the Auburn Fire Department or a recognized municipal fire department who meets the criteria of Instructor who is designated to be in charge of the live burn training exercise.

Live Fire: Any open flame or device with open flame utilized to demonstrate or train fire department personnel in suppression theories or techniques.



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Operation Area: The area within twenty (20) feet of any portion of the live burn training structure or training prop involved in a live burn training exercise.

Participant: Any student or recruit, instructor, instructor aid, safety officer, visitor or other person who is involved in the live burn training evolution within the operation area.

Protective Clothing: Clothing and equipment which meets or exceeds the requirements of the edition of the following nationally recognized standards which were in effect at the time of purchase: NFPA 1971 (protective clothing for structural firefighting), NFPA 1972 (helmets), NFPA 1973 (gloves), NFPA 1982 (PASS devices) and 29 CFR 1910.156 (e) (2) (ii) – OSHA (footwear)

Safety Officer: An instructor or other fire department member qualified and designated to maintain a safe working environment at all live burn training exercises. The member will be trained as an Incident Safety Officer, by the Massachusetts Fire Fighting Academy, National Fire Academy, or other approved training organization.

Site Safety Supervisor: A person designated to maintain an overall safe working condition when two or more training exercises are being conducted concurrently at the same training facility.

Student: Any person who is present at a live burn training exercise for the purpose of receiving training, who is a minimum of eighteen (18) years old.

Support Staff: A person designated to assist an Instructor or an Instructor Aid with the set up and ignition of fires.

General:

- a. Live burn training provides a realistic means of training firefighters. While this type of training provides high levels of realism it carries with it most of the hazards and dangers of firefighting at actual emergencies. Live burn training exercises must be planned with care and supervised closely by qualified instructors and overseen by a Safety Officer.
- b. All live burn operations shall be under the direction of a designated Officer-in-Charge (OIC) who shall ensure a productive, safe learning environment and who shall be responsible for compliance with all applicable policies. The OIC shall wear a vest that displays “Command”.
- c. A Safety Officer shall be designated for each live burn training exercise. This person shall be strategically placed so they have the ability to react to any unplanned or threatening situation. The Safety Officer will also be responsible for monitoring room temperatures during each evolution. The exterior Safety Officer shall wear a vest that displays “Safety”.
- d. An interior Safety Officer shall be designated for each floor that is being utilized for live burn operations. This person shall be strategically placed so they have the ability to react to any unplanned or threatening situation on the interior of the building.



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- e. A pre-burn briefing shall be conducted prior to all live burn training exercises. This briefing shall include but not be limited to identification of the OIC, Safety Officer, Interior Safety Officer and Emergency Medical Technician. The briefing shall also include safety procedures, evacuation procedures, procedures to be followed during the exercise, location of EMS and procedures to be followed in the event of an emergency.
- f. Provisions for Emergency Medical Services shall be provided prior to all exercises in the following manner:
 - The minimum of one (1) Emergency Medical Technician (EMT) with a first in bag, oxygen and a SAED must be present and assigned to EMS.
 - A specific location is designated for a first aid station and all first aid equipment is set up in that area ready for use.
 - All students, instructors and instructor aids are informed of the location of the first aid station.
 - A portable radio will be supplied by the Auburn Fire Department for contacting Auburn Fire Alarm of emergencies.
 - The EMT shall wear a vest that displays “EMS”.

Minimum Training Standards:

In order to ensure safe operations during a live burn training all participating students shall have achieved a minimum level of basic training.

Prior to being permitted to participate in live burn training the students shall have received training to meet the applicable performance objectives for Fire Fighter I of the NFPA 1001, Standard for Firefighter Professional Qualifications (2002), 5.3.3 Fire ground Operations.

- Objective 3-3.17 Safety
- Objective 3-3.9 Fire Behavior
- Objective 3-3.15 Portable Extinguishers
- Objective 3-3.2 Personal Protective Equipment
- Objective 3-3.5 Ladders
- Objective 3-3.9 Fire Hose, Appliances and Streams
- Objective 3-3.12 Overhaul
- Objective 3-3.10 Ventilation



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Students who intend to participate in live burn training shall submit the Auburn Fire Department “Application for Live Burn Training”, acknowledging that they have received the required minimum training from a department other than Auburn. Any member not possessing the signed application will not be allowed to participate in any live burn training without proof of the prescribed minimum training to the levels specified above.

Protective Clothing and Equipment:

Each participant in a live burn training exercise shall be equipped with full protective clothing and positive-pressure self contained breathing apparatus (SCBA). Personal Alert Safety System (PASS) devices shall be worn. All participants shall be inspected by the Safety Officer to ensure that the protective clothing and SCBA comply with the applicable NFPA standards and are being properly worn prior to entry into a live burn training exercise. The Safety Officer shall ensure that the PASS devices comply with the applicable standards, are operational, and are being properly worn prior to entry into a live fire training exercise.

Each participant in a live burn training exercise shall breathe from a positive pressure SCBA whenever one or more of the following conditions exist:

- Operating in an atmosphere that is oxygen deficient or contaminated by products of combustion or both.
- Operating in an atmosphere that is suspected of being oxygen deficient or contaminated by products of combustion or both.
- Operating in any atmosphere that may become oxygen deficient or contaminated, or both.
- Operating below ground level.

NOTE: No one shall be allowed to breathe smoke, toxic vapors, or fumes, products of combustion or other contaminated atmospheres or be exposed to an oxygen deficient atmosphere.

Water Supply:

The water supply for any individual live burn training exercise shall be based on the extent of the evolution, method of attack to be deployed and the back-up lines required.

Water supply for attack lines shall be available from a pump set at either a hydrant or at a static water source. Water supply for back-up lines shall be available from a separate pump set at either a hydrant or at a static water source. The same water source may supply both the attack and back-up lines. It shall be the responsibility of the Instructor-in-Charge to insure that a continuous supply of water will be established at all times and that in the event of mechanical failure of a pump, complete loss of water will not result.



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Fuel:

Fuel used for live burn training evolutions shall be pine excelsior, wooden pallets, or straw and other ordinary non-hazardous combustibles. Reasonable efforts shall be made to ascertain that all fuels have not been treated with pesticides or other harmful chemicals. The use of flammable/combustible liquids, tires, or other such material is prohibited.

Safety:

- a. Sufficient back-up lines shall be provided to ensure adequate protection for personnel on training attack lines.
- b. The Instructor-in-Charge of the live burn training exercise shall determine prior to each specific evolution how many training attack lines and back-up lines will be necessary. Each back-up hose line shall be capable of delivering a minimum of 100 gallons per minute. The Instructor-in-Charge shall:
 - Assign one instructor to each training attack line crew which shall not exceed five (5) students.
 - If the training fires are involving more than one floor, provide a back-up line for each level of operation.
 - Assign one instructor or instructor aid to each back-up line.
- c. Additional safety personnel as deemed necessary by the Safety Officer shall be strategically placed within the structure to react to any unplanned or threatening situation or condition.
- d. A method of communication shall be established to allow coordination between the Instructor-in-Charge, Safety Officer, and all operating sectors within the operations area.
- e. Support staff shall be designated to ignite the training fires under the supervision of the Safety Officer. These persons shall not be students and shall wear full PPE including SCBA. The decision to ignite the training fire shall be made by the Instructor-in-Charge in coordination with the Safety Officer.
- f. No person(s) shall be placed inside the building to play the role of a victim!
- g. Entry and egress points in the training tower shall not be blocked with any materials whether the tower is in use for training or not.



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Live Burn Detail:

- a. A member of the Auburn Fire Department will be detailed to the burn facility for every live burn conducted by an organization with the exception of AFD and Mass. Fire District 7 Recruits.
- b. The detailed member will be assigned the position of Safety Officer, and as such, shall have control over the live burn training in maintaining that the established procedures adopted and approved by the Auburn Fire Department are adhered to. The Safety Officer shall have direct radio contact with the Instructor-in-Charge.
- c. The Safety Officer will arrive at the facility ½ hour prior to the beginning of the training session. The member shall have a copy of the detail checklist and ensure that all items are reviewed and checked off. The initial review should be done with the person in charge of the outside group whenever possible. The final inspection of the burn facility and perimeter shall always be conducted with the person in charge of the outside group.
- d. The Safety Officer will conduct a review with the Instructor-in-Charge of all students who will be participating in the live burn training to ensure that they all have signed applications verifying the status of their PPE and training standards. The Safety Officer should have extra, blank copies of the application that can be filled out in case one is missing for a particular student. Any student who does not have a signed application may not participate in live burn training.
- e. Prior to every live burn training the Safety Officer shall thoroughly inspect the structure for obvious defects and hazards. This inspection shall include but not be limited to an examination for floor, wall, and ceiling openings, means of egress, stair treads and rails and ice build up during cold weather operations. The Safety Officer shall make the inspection and evaluate conditions in consideration of the training environment and level of expertise of the students. The Safety Officer shall remove or remedy and hazardous condition found during the inspection prior to commencement of the training session. If a hazardous condition cannot be removed or remedied, the training session shall not be permitted to proceed.
- f. The Safety Officer shall ensure that all doors and windows are unlocked and unbolted!
- g. The detailed member shall meet the qualifications for the position as set forth by the Chief of the Auburn Fire Department. Those qualifications are as follows;
 - Regular member of the Auburn Fire Department (not recruit status).
 - Trained as an *Incident Safety Officer*, by the Massachusetts Fire Fighting Academy, National Fire Academy, or other approved training organization.

Developed: 01/08

Revision: 10/4/10