# 1.1.7 Training, Education, and Exercises



# YOUR ORGANIZATION STANDARD OPERATING PROCEDURES/GUIDELINES

SECTION/TOPIC: General Administration		
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#### 1.0 POLICY REFERENCE

CFR	
NFPA	
NIMS	

#### 2.0 PURPOSE

This standard operating procedure/guideline addresses in service training (initial and refresher), live fire training exercises, training evaluation, certification, requests for training, training records, interorganizational/community exercises.

The purpose of this procedure to is to establish guidelines for the operations of recruit training vehiculars. The Fire Department recognizes that recruit vehiculars is a critical phase of the recruit's training, and allows the recruit to experience the actual work of a firefighter. This is done under the close supervision of Recruit Training Officers (RTOs), and it is conducted prior to the recruit leaving the Training Academy and reporting to his or her first probationary station rotation.

This procedure will also ensure the recruit gets a meaningful experience while maintaining a safe environment and allowing for a good communications link between the Training Academy and the Operations Section of the Fire Department.

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This SOP/SOG pertains to all personnel in this organization.

#### 4.0 DEFINITIONS

These definitions are pertinent to this SOP/SOG.

# 5.0 PROCEDURES/GUIDELINES & INFORMATION

# 5.1 In Service Training (initial and refresher):

# **COMMUNICATIONS BETWEEN TRAINING AND OPERATIONS**

It is critical that the Operations Division is aware of recruit vehicular training and the battalions that this training will be occurring in. In the past, recruit-training companies have added on to incidents and the responding field companies and command officers were not aware of their presence. This can lead to confusion and could be dangerous to the recruits.

The responsibility of notification to Operations of any vehicular training from the City Fire Department Regional Training Academy (TA) will be the Division Chief of Training. The Division Chief of Training will notify the North, South and West Shift Commanders on all three shifts, via e-mail or telephone, of the dates and times that vehicular training will be conducted.

In addition, the Division Chief of Training will place a notice through department e-mail and notify all members of the dates and times that vehicular training will be conducted. This should be done at least one week prior to the date of the training. The training companies should use the vehicle designation of Engines xx through xx. These vehicle numbers are reserved for the TA and are recognized throughout the automatic aid system as training crews.

The RTOs of the individual training companies will notify the specific Battalion Chiefs of the battalions that the training vehicles will be operating in. For instance, if the vehicular engine will be operating in Station 30's first due, the RTO will notify by phone Battalion 8 and advise the Battalion Chief of the plans to train in that area.

The RTO also needs to contact the captain of the Engine and/or Ladder Company and inform them of the recruit-training vehicle in the area. This will give the assigned Company Officer a heads-up for the training vehicle, and to allow the Company Officer to plan to use the training vehicle in the most safe and positive manner.

If the training company plans to move to another battalion for extended operations, the RTO should call the respective Company Officer and Battalion Chief of the new area and inform them of the vehicular company's plans to operate in their area.

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#### **RECRUIT COMPANY'S OPERATIONS ON FIELD INCIDENTS**

City Regional Standard Operating Procedures M.P. xxx.xx describes in detail the procedure of Supervising Less Experienced Personnel. This procedure should be understood completely by anyone involved in the supervision of recruit training companies. Some of the critical issues regarding recruit-training companies are the following:

- All Command Officers in charge of an incident that has recruit training companies operating on their incident should be careful of assigning the training crew to any dangerous or critical assignment. Remember that these training crews are usually two Company Officers and up to 4 recruits. This may be difficult to closely supervise the recruits while operating in a critical, fast moving assignment.
- The recruit training vehicles should avoid adding themselves on to incident many miles away from their current location. Driving code three many miles through city traffic increases the exposure of both fire personnel and citizens to unnecessary accidents, and the chances of the training vehicle getting on the incident scene in time to perform is low. The RTO may choose to add on and respond Code 2 outside their assigned response area to provide relief for companies working large/long term fires such as recycle or pallet yard fires.

# TRAINING OPERATIONS OF AUTOMATIC AID AND NON-MUTUAL AID FIRE DEPARTMENTS

On occasion, recruit training vehicles and crews from other fire departments will operate within the City. This may be done in attempts to have the recruits work in high traffic areas and increase the amount of responses and gain more experience. This is understandable but it must be done through a structured manner.

Any training crews operating inside the City must belong to the Automatic Aid system. This ensures that the recruit personnel and their company officers have training that is compatible with that of City fire crews. This compatibility will allow for safe and effective fire grounds operations. Any training crews that are from a system that does not follow Regional Standard Operating Procedures (Volume 2) as approved by the Regional Operations Consistency Committee (ROCC) or that is not a member in the Automatic Aid system will not be allowed to operate for training purposes within the city limits.

Any non-City training academy vehicular that conforms to the Automatic Aid guidelines may operate within the City boundaries. The Chief in charge of Training for the respective agency should contact the City Fire Department Training Academy Deputy Chief at least four weeks prior to the commencement of training. The Deputy Chief of the Training Academy will contact the Shift Commanders and request permission for the outside agencies to conduct vehiculars for the desired dates and times. These times and dates will also be placed in the Buckslip and on department e-mail

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for all members. In addition, the RTOs of the individual training companies will notify the specific Battalion Chiefs of the battalions that the training vehicles will be operating in.

The communication of this procedure from City Fire Department to Automatic Aid departments will be through the Deputy Chief of Training of the City Fire Department. The Training Chief is aware of the other training programs within the Valley, and has established relationships with the other training chiefs.

For uniformity and recognition, any training vehicles from Automatic Aid fire departments should use vehicle designations that involve the numbers xx through xx. The vehicle number may utilize the numbers of the respective department, followed by xx – xx. For example, a neighboring training truck may use Engine xxxx. Another neighboring City training truck may be Engine xxxx. Since these numbers are recognized as training trucks, this would increase the chances of all officers identifying the company as a training crew and respond accordingly to this procedure and to M. P. xxxxxxx.

# 5.2 Live Fire Training Exercises:

# **PURPOSE**

The purpose of this procedure is to establish standard guidelines for conducting structural training fires while complying with NFPA Standard 1403. All other City Regional procedures will also apply to training fires where applicable.

The objective of a training fire is to provide realistic fire ground training under actual fire conditions for recruit and uniformed firefighters while providing high levels of safety and minimizing risk to firefighters.

Training fires will be designed to minimize the risk and to control the fire conditions so that firefighters are not unnecessarily exposed to hazards or injuries.

Training fires present the same hazards as those encountered at actual field incidents. The Incident Command System employed at actual fire incidents will be Standard Operating Procedure at <u>all</u> structural training fires. Refer to Volume II, Standard Operating Procedures.

#### PROCEDURES FOR ON OR OFF SITE BURNING

#### **PERMITS**

The Training Academy holds a burn permit issued by County Environmental Services Department. The officer in charge is responsible for complying with the conditions stated on the burn permit. This

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includes burning only during the months and hours specified on the permit. Check the burn permit located in the main office to verify that the permit is current and has not expired.

The officer in charge is also responsible for calling the Air Quality Division each morning of the day of burning to obtain permission to burn that day. The phone number is (xxx) xxx-xxxx. You must fill in the log at the time of the phone call with your name, the person you spoke to, type of burn, and time of day.

Note: Burns conducted outside the City boundaries may require local permits in addition to the county permit. Check with local jurisdiction before burning.

All burns, (off-site and on-site) must be conducted in compliance with the Fire Department's Burn Permit issued by the County Department of Environmental Services, Air Quality Division. This includes limitations on the times when burns are allowed and pre-approval of all burns to ensure that they do not contribute to violations of the air quality health standards. Burn permits conducted off the training academy campus MAY require a burn permit specific to site/property where the burn is to occur.

All structural off-site burns require an asbestos survey and filing a completed NESHAPs form with County Department of Environmental Services, Air Quality Division at least ten (10) working days prior to the scheduled burn.

#### **COMMAND**

One officer on the scene shall be designated as "Command" and will assume the Command functions.

A Command Post shall be established and positioned to afford maximum visibility of the structure, operating companies and fire conditions.

#### **COMMUNICATIONS**

Command is responsible for establishing radio communications with each company officer or training officer involved in the drill. Channel assignment must be coordinated with Dispatch and Deployment and all companies involved. Companies operating at the training fire will continuously monitor the assigned radio channel. All radios will be checked for proper functioning and correct channel prior to initiating training fire operations.

#### **SECTORS**

To eliminate confusion, and provide adequate scene control, all personnel operating within the fireground perimeter shall operate under the direction of a sector officer. The fireground perimeter shall be defined as the hazardous area surrounding the burn structure and shall be determined by

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Command following guidelines stated in Fireground Safety.

The following sectors shall be established on all structural training fires.

Interior - Company or training officer directing interior suppression activities.

- Exposure Provide manned, charged hose line positioned to protect exposed property. More than one hose line (and therefore, more than one sector) may be required, depending on the exposures present.
- Rescue Provide a manned, charged back-up line for each fire attack team, in position to (
  RIC) assist in fire extinguishment and rescue of interior personnel. This sector will be manned by experienced firefighting personnel (not recruit firefighters) and each Rapid Intervention Crew (RIC) shall consist of a minimum of three firefighters. A company officer shall be in charge of each RIC unit. There shall be one rescue (RIC) team for each fire attack team. The RIC will be positioned in a ready state near the exterior point of entry.
- Rehab All personnel not assigned to other sectors will be under the direction of Rehab. Rehab area will be established in a location that reduces congestion around the fire building.
- Safety The Safety Officer (or a safety representative) will be in attendance at all structural training fires and will assume safety sector responsibilities. The safety sector will monitor personnel and fire conditions, and work with Command to ensure all safety procedures are complied with, and that risk to personnel is minimized.

Other Other sectors may be established as necessary to control training/fire control Sectors - operations and to minimize risk to firefighters.

#### **SAFETY**

The Safety Officer shall have full authority to intervene and control or stop any aspect of the operations when in his/her judgment; a potential or real risk to personnel exists. He/she will not be assigned other duties that would distract from his/her safety responsibilities.

Additional Safety Officers may be assigned to the training fire if the conditions dictate. Responsibilities of the Safety Officer(s) will include but not be limited to the prevention of unsafe acts and elimination of unsafe conditions.

Company officers acting as instructors will be responsible for the direct supervision of assigned students and their safety and welfare, including the prevention of unsafe acts and the elimination of unsafe conditions.

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Fire Department personnel will not be permitted to operate on the roof during active fire conditions in the building.

The number of personnel involved in training fires often exceeds the number normally assigned at actual incidents. To reduce risk, and assist with scene management, training fire participants shall be formed into individual companies consisting of no more than four (4) members and supervised by a company officer.

Exposing recruit firefighters to structural training fires presents special safety considerations. All sector officers should anticipate that a recruit firefighter's exposure to interior fire conditions may be less than orderly. To reduce the possibility of injury, the span of control for interior operations shall not exceed two recruits for each company or training officer.

All firefighters involved in structural training fires shall have received training to meet the performance objectives of Firefighter I, NFPA 1001 in:

- Forcible Entry
- Protective Breathing Apparatus
- Fire Hose, Nozzles and Appliances
- Fire Streams
- Ladders
- Ventilation
- Rescue
- Safety
- Fire Behavior

No personnel shall be permitted to act as a victim(s) during live training fires.

To reinforce safety procedures, a protective clothing and equipment inspection shall be conducted on all firefighters immediately prior to and after engaging in suppression activities. The inspection shall insure that all clothing and equipment is serviceable and worn in a manner to provide the maximum personal protection.

The Safety Officer will be responsible for completing the safety checklist prior to initiating the training exercise.

One officer on the scene shall be designated as an accountability officer and will assume the accountability functions.

To enhance accountability and to improve tracking of firefighters in the Hot Zone, the "PASSPORT" system shall be used,

Personnel Accountability Report or "PAR" shall be used at the following accountability benchmarks:

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- Upon entering the structure
- Any report of a trapped or missing firefighter
- By all crews reporting an "All Clear"
- At a report of fire under control
- Upon exiting the structure
- Sudden hazardous event
- Change from offensive to defensive strategy
- At the discretion of Command

Passports will remain with the designated accountability officer near the "point of entry" to the Hot Zone. Upon entry, crews will turn in their PASSPORT. Upon exit, the crew must retrieve their PASSPORT. The accountability status board will contain only the PASSPORTS of those crews in the Hot Zone.

Access to the training fire building will be controlled by fire line tape that shall be stretched around the fire-building perimeter.

Personnel within this perimeter may be permitted to operate with the SCBA facepiece removed. All other protective clothing items shall be in place.

All personnel not wearing appropriate protective clothing and equipment shall remain outside the fire line perimeter.

# **REQUIRED FIRE EQUIPMENT AND COMPANIES**

Two separate sources of hydrant water supply shall be established (two Engine Companies minimum). The water supply shall be test flowed by the forward pumper to insure adequate water supply of a minimum of 500 gallons per minute.

All fire attack hose lines shall be supplied by one pumper. The RIC unit backup hose lines shall be supplied by a second pumper. All hose lines will be flow tested to confirm a minimum of 95 gpm.

An on-duty battalion chief or other chief officer designated by the Training Academy staff shall be on scene to supervise the overall operation.

A utility truck and a rescue shall be on scene prior to the start of the training fire. An ALS company shall also be on scene.

Access to the scene shall be controlled to permit emergency access to and from the site.

All apparatus will be appropriately placed or staged in accordance with the City Regional Standard

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Operating Procedures.

#### STARTING THE FIRE

The use of flammable or combustible liquids, as defined in NFPA-30, shall be prohibited for use in live fire training evolutions. Only Class A materials shall be used in live fire training. The ignition process will be conducted under the direct supervision of the Safety Officer. Command shall assign an experienced firefighter to become "FIRESTARTER." It is the responsibility of the FIRESTARTER to initially ignite the fire. FIRESTARTER shall also regulate the fuel load for each evolution to maintain a tenable atmosphere inside the training fire rooms. The RIC unit shall be in place with a charged hose line prior to ignition.

# ATTACK PLAN

The officer in charge shall develop an attack plan based upon information obtained during the preplan and building preparation stages.

The Attack Plan shall specify:

- Points of ignition
- · Amount of fire load
- Position of entry attack lines
- Position of RIC units
- A Rescue Plan

<u>All</u> personnel involved in the drill shall be instructed on each element of the attack plan prior to igniting the structure and shall receive a <u>walk through briefing</u> of the building prior to <u>each</u> training fire. An evacuation plan and signal shall be reviewed and agreed upon.

# RE-USE OF LIVE TRAINING FIRE BUILDING

The building will be re-inspected by the Safety Officer for structural integrity and for any hazards or unsafe conditions prior to each additional training fire in the structure.

#### **RECORDS AND REPORTS**

The following records and reports shall be maintained on all live fire training for two years.

- a. An accounting of the activities conducted.
- b. Roll call of all participants, including the Safety Officer and other support personnel.
- c. Documentation of unusual conditions or events encountered.
- d. Any injuries and treatment provided.
- e. Copy of "Transfer of Authority" form signed by property owner.

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- f. Copies of all permits, releases or other documents relating to the training fire.
- g. Records of critiques.

#### **OFF SITE TRAINING BURNS**

# PRE-PLANNING

The officer in charge of the drill will conduct an initial inspection of the training fire site. If the building appears acceptable, he/she will make an appointment with the Safety Officer to inspect the building.

Single-story structures shall always be considered first choice when selecting training in interior firefighting operations. Two-story structures will only be considered when the building has been thoroughly inspected by the Safety Officer and the Command officer. Both officers must agree that the building is structurally sound for training burns. Adequate egress/access points on the second floor must be readily available.

The officer coordinating the training fire will inspect the building with the Safety Officer. The building must meet fire safety and structural integrity criteria before approval to conduct a training fire is given by the Safety Officer. The Safety Officer shall have full authority to deny approval if the building is determined unsafe. Buildings incapable of withstanding exposure to fire conditions shall not be utilized. Buildings with bars on windows or doors that cannot be removed shall not be utilized.

Traffic control will also be a major factor for consideration in approving live structural training fires. Approval will not be given where traffic cannot be effectively controlled or re-routed.

# **ASBESTOS CONSIDERATIONS**

Prior to scheduling any training activities an asbestos consideration must be conducted by an AHERA accredited asbestos building inspector to ensure that no asbestos is present in the structure. The asbestos survey must follow AHERA guidelines and in addition include sampling of all materials, which are determined by the inspector to be suspect for asbestos. This MAY include roofing components, ceiling tiles and finishes, flooring or interior and exterior textured wall treatment layers including but not limited to stucco and paint. Metals, wood and glass are recognized as having no potential for asbestos.

If asbestos is determined in any layer of material, in concentrations greater than 1%, the structure/house may not be used for any type of training activities, including burns, forcible entry, etc.

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If the building is found to be free of asbestos materials (<1% by layer), a NESHAPs form must be filed with County Air Quality Asbestos Unit at least 10 working days before the scheduled burn.

# **RESTRICTED AREAS**

Training fires are not permitted in the following locations:

- The Central Corridor (xx Avenue on the West and xx Street on the East).
- The Airport Relocation area (xxth Street on the East and xxth Street on the West. The freeway on the South and xxxx Street on the North).

Drills that draw opposition from neighbors or other members of the community should be discontinued.

# **BUILDING PREPARATION OBTAINING PERMISSION AND PERMITS**

The training officer coordinating the live structure burn shall be responsible for obtaining all releases, permits and other approvals and releases relating to the training fire. They shall include, but not necessarily be limited to the following:

- 1. Confirm a clear title on the property.
- 2. Obtain written permission from the building owner.
- 3. Verify ownership of the selected building.
- 4. Obtain documented proof of cancellation of insurance on the selected building.
- 5. Obtain a burn permit from Urban Services.
- 6. Obtain permission to burn from Air Quality Control.
  - 7. Obtain approval from immediate supervisor.
  - 8. Obtain approval of Safety Officer.
  - 9. Review requirements and restrictions in the Fire Department's Burn Permit with Maricopa County Department of Environmental Services. Review expiration date on the permit.
  - 10. Request and confirm completion of an asbestos NESHAPS survey to be completed by a AHERA Certified Building Inspector and submit a completed NESHAPS to County Air Quality for approval 10 working days prior to a burn day.
  - 11. Request and confirm completion of an inspection by the Fire Department's Industrial Hygienist fro City Safety to evaluate the presence of hazardous waste, mercury, lead, and other regulatory issues.
  - 12. If asbestos, in any form, is determined in the structure, the structure will not be considered for training burn or any other type of training activity.

#### SITE PREPARATION

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The following preparations will be made prior to conducting a training fire in a structure:

- Request a walk-through of the property by the Fire Department's Industrial Hygienist or a representative Industrial Hygienist from City Safety. The walk through should include a review of asbestos testing results, ad results or inspector for hazardous waste, mercury, lead and other results of previous inspection.
- Confirm that utility service (gas and electric, etc.) has been disconnected.
- All debris will be cleared from entrances and exits and from the immediate exterior area.
- At least two points of egress shall be provided in all training fire structures.
- All interior contents shall be arranged to permit free access to and egress from all rooms.
- No additional combustible, or smoke generating substance other than wood pallets or other Class A materials will be added to any structure.
- The fire load shall be conservative.
- Low-density combustible fiberboard and unconventional interior finishes shall be removed.
- All windows and doors to be used for egress or emergency evacuation will be checked for and made capable of unrestricted opening.
- Structures will be pre-vented at the roof. The roof vent opening may be covered with an appropriate material. A metal cable will be attached to prevent burn-through and the cable will be extended to the ground. The vent cover will be removed at an appropriate time during fire attack operations to permit ventilation and prevent flashover or backdraft.
- Heavy roof, attic, or ceiling equipment or fixtures, etc., shall be removed.
- Pre-training fire checklist shall be completed.

# NOTIFICATION OF TRAINING FIRE ACTIVITIES

Prior to conducting structural training fires, the following notification must be made.

- Fire Prevention—Obtain a burn permit from Fire Prevention. A burning permit must be obtained for all training fires conducted off Training Academy grounds.
- Dispatch & Deployment--location, time, type of burn, companies being utilized.
- Obtain permission to burn from County Department of Environmental Services Air Quality Control Division.
- On-duty Public Information Officer (PIO)
- Shift Commander
- Battalion chief whose battalion the training fire will be in.
- Safety Officer
- District commander in whose district the training fire is being conducted.
- Occupants of adjoining property
- Police Department
- The office of the Deputy City Manager
- The office of the District Council member

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# **OFF SITE PRE-TRAINING FIRE CHECKLIST**

- Call County Department of Environmental Services Air Quality Division for permission to burn on morning of burn day (phone number is listed on permit)
- On-site building inspection by Safety Officer
- Inspection by Fire or City Industrial Hygienist (for asbestos, hazardous waste, mercury, lead, etc.)
- Building structure was analyzed for structural integrity
- Exposures evaluated
- Special Hazards considered
- Access to site and all sides of building adequate
- Water supply from two hydrants/adequate
- Street traffic blockage considered
- Exterior debris, trees, and brush cleared
- Two points of egress/exits available
- Windows/doors unrestricted
- Interior access unobstructed; uncomplicated
- Ceiling fixtures removed
- Class A fuel only for fire starting
- Interior combustibles fire load reasonable/conservative
- Permits/permission and other documentation obtained
- Evidence of prerequisite training (NFPA 1001) obtained for students from outside agencies
- Adjacent property owners notified
- · All utilities disconnected
- Heavy attic or roof objects removed
- Porches, steps, or railing made safe
- Notifications made
  - 1. County Department of Environmental Services: permission to burn on morning of burn day (phone number is listed on permit)
  - 2. Fire Department or Personnel Safety Industrial Hygienist
  - 3. Request and confirm asbestos NESHAPs form filed 10 working days before the burn
  - 4. Fire Prevention
  - 5. Dispatch & Deployment
  - 6. Public Information Officer
  - 7. Shift Commander
  - 8. Battalion chief in training area
  - 9. Safety Officer
  - 10. District commander
  - 11. Police

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- 12. Air Quality Control
- 13. Deputy City Manager
- 14. District Council member

Signed:_		
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# **ON-SITE TRAINING FIRE OPERATIONS CHECKLIST**

- Call County Department of Environmental Services Air Quality Division for permission to burn on morning of burn day (phone number is listed on permit). Verify that the permit has not expired.
- Class A Fuel only
- Adequate fire apparatus on site
- ALS company on-scene
- Rescue on-scene
- Rehab on-scene
- Utility truck on-scene
- Two separate hydrant water sources secured
- Pumpers flow tested for a minimum 500 gpm water supply
- Roof pre-vented with adequate opening
- Vent covers with cable to ground
- Fire load; conservative; not excessive
- Ignition location determined
- Safe ignition fuel utilized
- Igniter person fully protected with protective clothing/SCBA
- Protective line for igniter person; manned and charged
- Ignition from exterior only
- Chief officer on site as Incident Commander
- Safety Officer (or representative) on-scene
- · Command and sectors established
- Command location identified and announced
- All radios checked for proper functioning/channel
- Sectors established
  - 1. Interior
  - 2. Exposure(s)
  - 3. RIC(s)
  - 4. Rehab
  - 5. Safety
  - 6. Other
- Attack lines in place, flow tested for a minimum of 95 gpm each
- RIC unit in place, flow tested for a minimum of 95 gpm each
- RIC unit staffed by minimum of three firefighters

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- One backup RIC unit in place (with hose line) for each fire attack entry team
- Attack lines from one pumper, RIC lines from a separate pumper
- Fire attack entry and RIC unit fully "suited up" in protective equipment, PASS unit and SCBA checked for proper functioning
- Company officers in charge of each entry and RIC unit
- Specific plan of operation established, understood by all
- Walk through briefing conducted for all crews
- Rescue plan established, understood by all
- Emergency evacuation plan and signal determined and agreed upon
- Fire Line tapes in place
- Provision for on site sanitary facilities/"Porta Jon," etc.
- Accountability Officer established

Signed:
POST TRAINING FIRE CHECKLIST
All personnel accounted for
Equipment and clothing checked for damage
Remaining fires overhauled/controlled
Critique conducted
Total extinguishment completed at end of training operations
Copy of "Transfer of Authority" form signed by building owner
Building secured or made safe
Bunker gear and equipment decontaminated
Signed:

# 5.3 Training Evaluation:

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5.4 <u>Certification</u> :		
5.5 Requests for Training:		

5.7 Interorganizational/Community Exercises:

5.6 Training Records: