



Houston Fire Department Life Safety Bureau (LSB)



LSB Standard No. 08, Rev. 05

Fire Drills

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LSB Standards are established in accordance with provisions of the City of Houston *Fire Code*. They are subject to the administrative sections covering alternative materials and methods, modifications, and the Board of Appeals.

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Fire Drills

Section 8.1 – General

8.1.1 Scope.

The fire code official (Fire Marshal) is authorized to require fire drills to be conducted in buildings of any occupancy type. Required fire drills shall be conducted in accordance with this standard and the City of Houston *Fire Code*.

8.1.2 Purpose.

This standard shall provide guidance for the preparation and implementation of fire drills.

8.1.3 Fire Drill Records.

A written record shall be kept on file for each fire drill conducted. Fire drill records shall be made available to the fire code official upon request, and shall include the following information:

1. Date and time of each drill.
2. Name of person(s) conducting the drill.
3. Amount of time required to evacuate the building.
4. Any other information required by the fire code official.

Section 8.2 – Definitions

8.2.1 High-Rise Buildings.

A building with floors located more than 75 feet (22,860 mm) above the lowest level of fire department vehicle access.

Exception. For the purpose of establishing a building as a high-rise, the uppermost floor located more than 75 feet above the lowest level of fire department access used for housing building systems mechanical equipment is exempt.

8.2.2 Mid-Rise Atrium Buildings.

Buildings in which:

1. The highest floor is 75 feet or less above grade plane; and
2. There exists an opening extending vertically that connects three or more stories.

8.2.3 Obstructed Drills.

An obstructed fire drill assumes that one or more exits or evacuation routes have been blocked by fire and cannot be used. In this type of drill, the primary evacuation route for certain rooms is considered “obstructed,” and persons exiting from these areas would utilize the alternate evacuation route from the room or area they occupied at the time the drill was initiated, as outlined in the building evacuation plan.

8.2.4 Unobstructed Drills.

An unobstructed fire drill assumes that all exits and evacuation routes from the building are open and available for use. In this drill, persons exiting the building would utilize the primary evacuation route from the room or area they occupied at the time the drill was initiated, as outlined in the building evacuation plan.

Section 8.3 – Fire Drills in Schools (Educational Occupancies)

8.3.1 Evacuation Plan Required.

The person in charge of any building classified as Educational (Group E) occupancy in accordance with the *Construction Codes* shall prepare an approved emergency evacuation plan for the building. The evacuation plan shall be submitted to the fire code official for review. The person in charge shall also ensure that all students and staff members are properly trained in the evacuation procedures.

8.3.2 Posting of Floor Plans.

A floor plan showing the proper evacuation routes shall be posted in each classroom and in other areas of the building normally occupied by students. This floor plan shall include the primary evacuation route from each room and an alternate route that can be used if the primary route becomes obstructed.

8.3.3 Evacuation Signal.

All fire drills in educational buildings shall be conducted utilizing an approved fire alarm system.

Note: “3-2-1 Bell” systems are no longer approved for use in conducting fire drills.

8.3.4 Staff Training.

All staff members, including temporary office staff assigned to the school office, shall be trained in the procedures for sounding a general alarm should a fire or other emergency make an evacuation necessary.

8.3.5 Fire Department Notification.

All drills shall include provisions for notifying the Fire Department. If the fire alarm system is monitored off-site, the monitoring service shall be notified that a drill is in progress so that no Fire Department apparatus will be dispatched.

8.3.6 Number of Required Drills.

It shall be the duty of the person in charge of each Educational occupancy to conduct at least one (1) fire drill per month. At least one-half of all drills shall be “obstructed” drills as defined in Section 8.2.3 of this standard.

8.3.7 General Guidelines for Fire Drills.

Fire drills are an exercise in discipline, not speed, though the building should be evacuated within a reasonable time period. Drills should be conducted during different times of the day, with some drills being performed during times students occupy areas

such as the cafeteria, auditorium, gym, and library. Drills are not required during periods of inclement weather or when state required testing is being conducted.

8.3.8 Written Records Required.

A written record shall be kept on file for each fire drill performed. Fire drill records shall be made available to the code official upon request and shall include the following information:

1. Date and time of each drill.
2. Whether the drill was “obstructed” or “unobstructed.”
3. If “obstructed,” which exits or routes were obstructed.
4. Name of person(s) conducting the drill.
5. Amount of time required to evacuate the building.

8.3.9 Drill Participation.

All students, staff members, and other occupants of the building shall participate in fire drills and shall immediately exit the building when the evacuation alarm is sounded. No one is permitted to remain in the building while a fire drill is being conducted.

8.3.10 Classroom Doors.

Doors to each classroom shall be closed after the room has been evacuated.

8.3.11 Outside Staging Area.

As part of the evacuation plan, a predetermined “staging area” shall be established outside the building. When the evacuation signal is activated, all staff members and students shall report to the designated staging area and await further instructions.

8.3.12 Roll Call.

Once the building has been evacuated, each teacher shall conduct a roll call of their class to ensure all students are accounted for and communicate this information to the person conducting the drill, as provided in the evacuation plan.

8.3.12.1 Drill Communication The evacuation plan shall include provisions for communicating this information to the person conducting the drill.

8.3.13 Building Search.

After the building has been evacuated, the entire school shall be checked to ensure no students have been left behind. The building search shall be conducted by adult staff members; **students are never to be utilized for this purpose**. The results of the building search shall be communicated to the person conducting the drill.

8.3.14 Mobility Impaired.

If mobility impaired students and/or staff members occupy the building, provisions shall be made for ensuring these persons can safely exit the building during an emergency. These provisions might include assigning staff members to physically assist them or might involve identifying certain areas of the building that can serve as an area of refuge until the Fire Department arrives.

Section 8.4 – Fire Drills in High-Rise Buildings

8.4.1 Number of Required Drills.

The Fire Safety Director for a high-rise building shall conduct a fire exit drill in accordance with the approved Fire Safety Plan for the high-rise building at least every six (6) months. The code official, upon survey of conditions, may require drills until the occupants can fulfill the requirements of the plan in a safe and efficient manner.

8.4.2 Drill Participation.

All occupants of the building shall participate in the fire drills as required by the fire code official and the *Fire Code*.

8.4.3 Written Records Required.

A written record of fire drills shall be kept on the premises and shall be readily available for fire department inspection.

Section 8.5 – Fire Drills in Hospitals and Nursing Homes

8.5.1 Number of Required Drills.

Each shift shall participate in at least one (1) fire drill every third (3) month.

8.5.2 Frequency of Drills.

The fire code official may order the owner, operator, administrator, manager, or person in charge of any hospital or nursing home to hold fire drills as often as may be deemed necessary by the fire code official.

8.5.3 Alarm Signaling.

The alert signal for a fire drill shall be by a predetermined code approved by the fire code official. In the interest of public safety, the words “Fire” or “Fire Drill” shall not be used in a hospital or nursing home.

8.5.4 Drill Participation.

During fire drills or fires in any hospital or nursing home, all on-duty staff personnel shall be activated to participate in the drill.

8.5.5 Written Record Required.

A complete and accurate record shall be kept of all fires and fire drills and shall be readily available for Fire Department inspection upon request.

Section 8.6 – Day Care Facilities

8.6.1 Number of Fire Drills.

Fire drills in day care facilities shall be conducted once monthly.

8.6.2 Drill Participation.

All occupants of the building shall participate in the fire drills as required by the fire code official.

8.6.3 Written Records Required.

A written record of fire drills conducted shall be kept on the premises and shall be readily available for fire department inspection upon request.

8.6.4 Drills Conducted Without Warning.

Fire drills shall be conducted without advance warning and should simulate fire conditions.

8.6.5 Prompt Evacuation.

Fire drills are an exercise in discipline, not speed, though reasonably prompt emptying of the building is required.

8.6.6 Occupants in the Building.

No one shall be permitted to remain in the building during a fire drill.

8.6.7 Roll-Call and Building Check.

As part of the drill, each day care counselor shall conduct a roll-call of their class, taken outside the building, to make sure that no one is left behind. A routine complete check of the entire building shall be conducted, including the toilet rooms, to make sure that no one is left behind.

8.6.8 Doors to Classrooms.

Doors to each classroom shall be closed after the room has been evacuated.

8.6.9 Exit Routes Used.

All exits shall be used in drills, but routes should be varied from drill to drill. Occasional drills should be held simulating conditions when one exit door or exit route cannot be used because it is blocked or "obstructed" by fire or smoke. Day care counselors and other personnel shall be instructed as to the use of different exits, and the drills should be conducted at different times of the day.

8.6.10 Fire Department Notification.

All drills shall include provisions to simulate the calling of "9-1-1" to notify the Fire Department.

Section 8.7 – Foster Homes

8.7.1 Emergency Fire Exit Plan.

Every foster home shall have a diagrammed "Fire Emergency Exit Plan (FEED)" identifying the home's exits, exit discharge, and area of safe refuge. The designation of an area of refuge (meeting place) located at a safe distance outside of the house where roll-call shall account for egress of everyone occupying the building, and the notification

of the Fire Department by calling “9-1-1” shall be included in the FEEP. The owner of the foster home or the owner’s authorized agent shall review the fire emergency exit plan with each child and each child’s family member(s) so they know what to do in case of fire. This discussion and review shall take place monthly.

Section 8.8 – Personal Care Facilities

8.8.1 Drills in Large Personal Care Facilities.

Fire drills in large personal care facilities shall be conducted in the same manner as for nursing homes. See Section 8.5 of this standard.

8.8.2 Personal Care Homes.

“Family home” type personal care facilities shall provide emergency evacuation exit plans in the same manner as for foster homes. See Section 8.7 of this standard. All staff and responsible residents shall be trained in how to activate the home’s fire system, and the notification of the Fire Department by calling “9-1-1” from a safe location.

Section 8.9 – Adult Day Care

8.9.1 Drills in Adult Day Care Facilities.

Fire drills in adult day care facilities shall be conducted in accordance with Section 8.6 of this standard.

Section 8.10 – Fire Drills in Mid-Rise Atrium Buildings.

8.10.1 Number of Required Drills.

The Fire Safety Coordinator for a Mid-Rise Atrium Building shall conduct a fire drill in accordance with the approved Fire Safety Plan for the building at least every six (6) months. The fire code official, upon survey of conditions, may require additional drills until the occupants can fulfill the requirements of the plan in a safe and efficient manner.

8.10.2 Drill Participation.

All occupants of the building shall participate in the fire drills, as required by the fire code official and the *Fire Code*.

8.10.3 Written Records Required.

A written record of fire drills shall be kept on the premises and shall be readily available for fire department inspection.

References

1. City of Houston *Fire Code*
2. City of Houston *Building Code*, all editions

All reference materials used under this Life Safety Bureau standard shall be in accordance with the most current adopted City of Houston *Construction Code*.