

TYPICAL FIRE SAFETY INSPECTION VIOLATIONS

The following is a list of typical violations often found by inspectors and a generic solution. You can use this list to improve the safety of your facility, to prepare for an upcoming inspection, or to develop your own self-inspection program. Note that specific code requirements may vary somewhat from jurisdiction to jurisdiction, so if you have questions or would like to know the specific code sections, please contact your local agency. (The reference number is used to make it easier to identify specific items; it does not refer to a code or ordinance.)

I. TYPICAL EXTINGUISHER VIOLATIONS

No.	General Type	Description
150	Extinguishers	<ul style="list-style-type: none"> · Insufficient number of fire extinguishers. © Provide xx number of fire extinguishers.
151	Extinguisher Servicing	<ul style="list-style-type: none"> · Fire Extinguisher not serviced within last 12 months. © Provide annual servicing for all fire extinguishers.
152	Welding Cart	<ul style="list-style-type: none"> · Welding cart does not have a fire extinguisher. © Provide extinguisher for welding and cutting on or near the oxygen acetylene rack.
153	Fixed Fire System Service	<ul style="list-style-type: none"> · Failure to service system. © Service fixed system every 6 months or after activation
154	Portable Fire System Service	<ul style="list-style-type: none"> · Failure to service extinguisher(s). © Service fire extinguisher annually or after use.
155	Spray Booths	<ul style="list-style-type: none"> · Spray booth or spray room unprotected by an approved automatic fire extinguisher system. © Submit plans to install an approved automatic fire extinguisher system.
156	Spray Booth Residue	<ul style="list-style-type: none"> · Combustible residue buildup in spraying area. © Remove and properly dispose of combustible residue. Maintain spraying area clean and free from residue buildup.
157	Spray Paint Shut Off Valve	<ul style="list-style-type: none"> · Missing shut off valve. © Provide shut off valve between paint container and piping
158	Fume Hoods	<ul style="list-style-type: none"> · Laboratory fume hoods and spray booths where flammable or hazardous materials are used unprotected by an automatic fire-extinguishing system. © Submit plans to install an approved automatic fire extinguisher system.
159	5-Yr Test	<ul style="list-style-type: none"> · Failure to provide an automatic sprinkler system in all interior and exterior storage areas, and gas cabinets (see Cabinets above) © Submit plans to provide an automatic sprinkler system.
160	Fire Extinguishing Systems	<ul style="list-style-type: none"> · Indoor flammable or hazardous materials storage areas and storage buildings unprotected by an automatic fire sprinkler

		system. © Submit plans to install an approved automatic fire extinguisher system.
161	Heated Plating Baths	· Electroplating, electroless plating, or metal finishing operations using heated baths in unsprinklered buildings. © Submit plans to install an approved fire suppression system.
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II. TYPICAL ELECTRICAL VIOLATIONS

No.	General Type	Description
250	Cover Plates	· Exposed cover plates on electrical junction boxes. © Replace cover plates on electrical boxes.
251	Zip Wiring	· Zip wiring, extension cords, and/or exposed romex wiring observed. © All permanent wiring must be in conduit and installed in accordance with the Electric Code. Fusible power strips are acceptable for some situations.
252	Multi-Plugs	· Multi-plug adapters observed in lieu of permanent wiring. © Multi-plug adapters may be used in temporary installations only.
253	Clearance	· Electrical control panel door blocked or obstructed. © Minimum 30 in. clearance in front of electrical control panel.
254	Motors	· Electrical motor covered with oil, dirt, or other materials. © All electrical motors shall be maintained free of oil, dirt, waste, etc.
255	Wiring	· Improper wiring observed. © Electrical wiring and equipment shall be installed in accordance with the Electrical Code.
256	Standby Power	· Standby power not provided or of insufficient capacity. © Mechanical ventilation, treatment systems, temperature control, alarms, detection systems shall be connected to a secondary source of power to automatically supply electrical power in the event of loss of power.
257	Limit Controls	· Appropriate limit controls absent or malfunctioning. © Liquid level, temperature and pressure limit controls shall be provided and maintained for hazardous materials storage, use and dispensing systems.
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III. TYPICAL EXIT VIOLATIONS

No.	General Type	Description
300	Obstructions	· Blocked, locked, or obstructed exits observed © Exits shall be clear of storage or obstructions. Exits shall not be blocked.
301	Aisles	· Proper aisles not provided. © Aisle(s) leading to required exits shall be approved and provided for all portions of the building.
302	Exit Doors	· Improper latching devices on exit door(s). © Exit door(s) shall open from the inside without use of key or special knowledge or effort.
303	Self-Closing Doors	· Self-closing door blocked or obstructed. © Remove obstructions or repair self-closing door(s).
304	Horizontal Exit	· Insufficient number of exits for building or portion of building. © A horizontal exit shall not serve as the only exit from a portion of a building when two or more exits are required
305	Second Exits	· Only one exit observed. © Second exits in garages required if over 1000 sq. ft.
306	Identification	· No visible exit sign. © Exit door identification shall be visible.
307	44 Inch Aisles	· Aisles too narrow or obstructed. © Maintain minimum 44 inch aisle way to exits.
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IV. TYPICAL STORAGE VIOLATIONS

No.	General Type	Description
400	Fire Hazard	· Combustible materials stored improperly. © Remove materials causing a fire hazard.
401	Oil Spill	· Oil spilled on ground or floor. © Clean and properly dispose of all spilled materials.
402	Vehicle Parts	· Improper location of motor vehicles or parts. © Motor vehicles or any part thereof, junk or other waste material shall not be stored or kept in such a manner to hinder or endanger fire fighting operations.
403	Rubbish	· Poor housekeeping. © Accumulations of waste, combustible, or flammable rubbish shall not be permitted to remain in any court, yard, vacant lot, or open space.
404	Cabinets	· Improper cabinets and/or cabinet doors not self closing and self latching

		<ul style="list-style-type: none"> © Provide approved flammable liquid cabinet for all class I, II, and III-A liquids over 10 gals. Cabinets must be self closing and self latching.
405	Electrical Rooms	<ul style="list-style-type: none"> · Materials observed stored in boiler, mechanical, or electrical room. © No storage in boiler, mechanical, or electrical rooms.
406	Heating Unit	<ul style="list-style-type: none"> · Materials observed stored adjacent to heating unit. © No storage within three feet of any heating unit.
407	Passageways	<ul style="list-style-type: none"> · Aisles and passageways blocked or too narrow. © Aisles and passageways shall be provided to allow reasonable access for Fire fighting operations.
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408	Gas Cylinders	<ul style="list-style-type: none"> · Gas cylinders observed without proper securing. © All compressed gas cylinders must be secured to prevent falling with non combustible restraints. Cylinders over 26 inches in height must have two restraints as close as practical to 1/3 and 2/3 of the cylinder's height.
409	Metal Cans	<ul style="list-style-type: none"> · Oily rags observed collecting in an open container. © All combustible rubbish (oily rags) shall be stored in metal cans with tight lids.
410	Under Stairs	<ul style="list-style-type: none"> · Combustible materials observed under stairs. © Storage under stairs shall not be permitted unless space is protected or enclosed by one hour wall.
411	Automatic Sprinkler Clearance	<ul style="list-style-type: none"> · Materials stored too close to sprinkler heads or ceiling. © Maintain an 18 inch clearance below automatic sprinklers, 24 inches below ceiling in non sprinkled buildings.
412	Riser Clearance	<ul style="list-style-type: none"> · Materials stored too close to riser. © Maintain 3 foot clearance from Sprinkler riser.
413	Outside Storage /Control Areas	<ul style="list-style-type: none"> · Improper outside storage. © Outside storage shall be no higher than 20 ft. and at least 3 ft. from any wall or fence. Exterior storage of flammable solids shall not be within 20 feet

		<p>of any building, property line, street, alley, public way or exit to a public way.</p> <p>Exterior storage of toxic or highly toxic solids and liquids shall not be within 20 feet of buildings, property lines, streets, alleys, public ways or exits to a public way.</p> <p>Exterior storage of corrosive liquids shall not be within 20 feet of buildings, property lines, streets, alleys, public ways or exits to a public way.</p>
414	Attic Clearance	<ul style="list-style-type: none"> · Combustible materials observed in attic area. © Keep attics clear of combustible materials.
415	Spray Areas	<ul style="list-style-type: none"> · Combustible residue buildup in spray area. © Clean spray areas and maintain free from combustible residue buildup.
416	Spray Paint Dispensing	<ul style="list-style-type: none"> · No shut off valve provided between container and dispensing piping/tubing. © Provide shut off valve.
415	Guard Posts	<ul style="list-style-type: none"> · Insufficient protection from vehicles. © Guard posts or other means shall be provided to protect exterior storage tanks from vehicular damage. When guard posts are installed, they shall be: <ol style="list-style-type: none"> 1. Constructed of steel not less than 4 inches in diameter and concrete filled, 2. Spaced not more than 4 feet between posts on center, 3. Set not less than 3 feet deep in a concrete footing not less than 15 inches in diameter, 4. Set with the top of the posts not less than 3 feet above ground, and 5. Located not less than 5 feet from the tank. Guard posts or other means shall be provided to protect exterior dispensing or use areas from vehicular damage.
416	Combustible Clearance	<ul style="list-style-type: none"> · Combustible materials collected or stored near © The area surrounding an exterior storage/dispensing or use area or tank shall be kept clear of combustible materials and vegetation for a minimum distance of 30 feet.
417	Cryogenic Storage	<ul style="list-style-type: none"> · Cylinder of cryogenic materials exceeding 1000 pounds water capacity observed inside building. © Cryogenic fluids in individual cylinders, containers or tanks which exceed a water capacity of 1,000 pounds shall not be stored inside of buildings.
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V. TYPICAL MISCELLANEOUS VIOLATIONS

No.	General Type	Description
550	704 Placarding	<ul style="list-style-type: none"> · Inadequate placarding provided for building, room, or tank

		<ul style="list-style-type: none"> © Provide 704 placarding.
551	Addresses	<ul style="list-style-type: none"> · Address missing, numbers are too small, or placed where they are not visible from street. © Approved numbers or addresses shall be placed on all new and existing buildings.
552	Holes in Walls	<ul style="list-style-type: none"> · Holes observed in walls of building or room. © Holes in walls and all fire resistive construction shall be repaired and maintained.
553	Room Capacity	<ul style="list-style-type: none"> · Room capacity signs missing or wrong. © Posting of room capacity is required in rooms w/o fixed seating and used as classroom, Assembly Room, or similar use where capacity exceeds 49.
554	Apparatus Access	<ul style="list-style-type: none"> · Fire access too restricted or obstructed by vehicles or equipment. © Provide a fire apparatus access road minimum 26 feet clear width curb to curb, and 14 feet vertical clearance front to back.
555	Grounding/Bonding	<ul style="list-style-type: none"> · Inadequate bonding and or grounding for flammable and combustible materials dispensing. © When class I and II liquids are dispensed, adequate grounding and bonding shall be provided to prevent static electricity.
556	Woodworking Shops	<ul style="list-style-type: none"> · Wood dust has accumulated and created a fire hazard. © Woodworking plants shall be equipped with refuse removal system which will collect and remove sawdust and shavings produced.
557	Ignition	<ul style="list-style-type: none"> · Personnel observed smoking in unsafe areas. © Smoking shall be prohibited in rooms where hazardous materials are stored or within 25 feet of outdoor storage areas. Open-flame and other heat-producing equipment shall be located a safe distance from areas where temperature sensitive materials, flammable materials and compressed gases are dispensed, used or handled.
558	Mechanical Ventilation	<ul style="list-style-type: none"> · Inadequate ventilation for building or storage area. © Indoor storage areas and storage buildings shall be provided with mechanical exhaust ventilation.
559	Venting	<ul style="list-style-type: none"> · No smoke or heat ventilation provided. © Smoke and heat venting shall be provided.
560	Dispensing	<ul style="list-style-type: none"> · Improper dispensing of flammable and combustible materials. © When liquids having a hazard ranking of 3 or 4 are dispensed from tanks or drums, dispensing shall be only by approved pumps taking suction from the top. When gases, liquids or solids having a hazard ranking of 3 or 4 are dispensed or used, mechanical exhaust ventilation shall be provided to capture fumes, mists or vapors at the point of generation. When liquids having a hazard ranking of 3 or 4 in accordance with U.F.C. Standard 79-3 are dispensed from tanks or drums, dispensing shall be only by approved pumps taking suction from the top.
561	Heated Plating	<ul style="list-style-type: none"> · Failure to provide fire protection for heated plating or metal

	Baths	finishing baths. © Submit plans to install an approved fire sprinkler system for the building, or discontinue use of heating elements for plating or metal finishing baths.
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