

LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all Flammable Spray-Finishing operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all Flammable Spray-Finishing operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all Flammable Spray-Finishing operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
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705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of 2,500 square feet in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of 2,500 square feet in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least semi-annually for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of 2,500 square feet in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of 2,500 square feet in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

## FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

## FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted <b>Temporary Extension Cords are sized appropriately</b> to supply only <b>1</b> appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.02	.0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	v 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHC</u> <u>Spec # 01 Fire Apparatus Access &amp; Marking of Fire Lanes</u> .	<u>FD</u>
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approv location. Ensure that the emergency operation feature is maintained operational at all times.	'ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " high letters, on a contrasting background, stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and or contrasting background, so they are easily visible from the street, and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Stre	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.	
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Mo	otor
	Fueling Dispensing.	
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.	
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.	
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary contain	ners
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHC	CFD
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.	
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.	
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside su	such
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".	

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each Fire Door in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR-DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of 2,500 square feet in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

### FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

### FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all Flammable Spray-Finishing operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

### FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

### FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

### FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

### FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

### FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

### FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least semi-annually for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

### FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

### FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).



LAKE HAVASU CITY Fire Prevention Division 2330 McCulloch Blvd. Lake Havasu City, AZ 86403 Ph. (928) 855-1141 Email LHCFire@lhcaz.gov

Below are common fire code violations which must be corrected to be compliant with the adopted LHCFD Fire Code.

ADMIN #	*Requirements are based on the <b>2018 International Fire Code (IFC)</b> unless otherwise specified.
IFC	1. Inspection authority. The Fire Code Official (FCO) is authorized to enter and examine any building, structure, marine vessel, vehicle o
§ 107.1	premises in accordance with Right of Entry provisions for the purpose of enforcing the fire code.
108.1	2. Maintenance of safeguards. Where any installed device, equipment, system, condition, arrangement, level of protection, or any othe feature is required for compliance with the provisions of this code or referenced standard, shall be continuously maintained.
108.6	3. <b>Overcrowding.</b> Overcrowding or admittance of any person beyond the <i>approved</i> capacity of a building or a portion thereof shall not be
	allowed. The FCO, on finding any overcrowding conditions or obstructions in <i>aisles</i> , passageways or other <i>means of egress</i> , or on finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until corrected.
10.2	4. Owner/occupant responsibility. Correction and abatement of violations of the fire code shall be the responsibility of the owner or the
-	owner's authorized agent. Where an <b>occupant</b> creates, or allows to be created, hazardous conditions in violation of this code, the occupan shall be held responsible for the abatement of such hazardous conditions.
11.1	<ol> <li>Unsafe buildings. If during the inspection of a premises, a building or structure, or any building system, in whole or in part, constitutes a</li> </ol>
	clear and inimical threat to human life, safety or health, the <i>FCO</i> shall issue such notice or orders to remove or remedy the conditions as shall be deemed necessary in accordance with this section, and shall refer the building to the building department for any repairs <i>alterations</i> , remodeling, removing or demolition required.
11.2	<ol> <li>6. Unsafe conditions. Structures or existing equipment that are or hereafter become unsafe or deficient because of inadequate means of</li> </ol>
111.2	egress, that constitute a fire hazard, are otherwise dangerous to human life or the public welfare, <u>or</u> involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. A vacant structure that is not secured against unauthorized entry as required by the <b>Vacant Premises</b> provisions shall be deemed unsafe.
112.1	<ol> <li>Stop Work Order. Where the FCO finds any work regulated by this code being performed in a manner contrary to the provisions of this code, or in a dangerous or unsafe manner, the FCO is authorized to issue a stop work order. Fees may apply for non-adherence.</li> </ol>
113.1	8. Authority to disconnect service utilities. The FCO shall have the authority to authorize disconnection of utility service to the building
	structure or system in order to safely execute emergency operations or to eliminate an immediate hazard. Notification required.
EXITIN	
004.9	9. Post a permanently designed and durable Occupancy Load Sign on a wall Adjacent to the Main Entry Doors in rooms and space
	used for Public Assembly. Approved Occupant Loads: Date approved:/_/
006.3.3	10. Ensure at least <b>2 Exits are present</b> in <b>1 story</b> A, B, E, F and M occupancies serving <b>50 or more persons.</b> 30 or more in Group S.
006.3.3	11. Ensure that in <b>Multi-stories B, F, M and S Occupancies</b> that are designed for <b>30</b> or more occupants, have access to a <b>Second Exit</b> .
008.2	12. Ensure that the entire <b>Means of Egress</b> is <b>illuminated</b> at all times when the building is occupied.
010.1.1	13. Ensure that the Clear Opening Door Width is at least 32" at 90 degrees and the maximum door width is not over 48" in width.
010.1.2.1	14. Ensure that all exit doors <b>Swing in Direction of Exit Travel</b> where serving <b>50 or more persons.</b>
010.1.3	15. Repair or replace exit doors so that they are <b>Easily Openable</b> using less than <b>5 pounds</b> of force (interior) and <b>15 pounds</b> for others.
1010.1.9	<ol> <li>Ensure that all required egress doors are readily openable from the egress side, Without the Use of a Key, Special Knowledge, o Effort. Remove Deadbolts as they are considered special knowledge latching devices.</li> </ol>
1010.1.9.1	17. Use only <b>Door Hardware</b> which doesn't require tight grasping, pinching, or twisting of the wrist to operate required <b>Accessible doors</b> .
1010.1.9.2	18. Ensure that <b>Door Operating Hardware</b> is <b>Located Between 34" and 48</b> " above the finished floor.
010.1.9.4	19. Post a Durable Sign above, or adjacent to, the main exit door(s) stating: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS
	OCCUPIED", using 1-inch High Letters, on a contrasting background.
010.1.9.5	20. Remove all manually operated Flush and Surface Bolts from required exit doors, except where permitted.
010.1.9.6	21. Ensure that all required egress doors are readily openable from the egress side, using only <b>One Operation to Unlatch</b> .
1010.1.10	<ol> <li>Ensure that doors serving rooms or spaces with an Occupant Load of 50 or more persons, in Group A or E occupancies, are provided with only Fire Exit or Panic Hardware. Any exceptions will be noted on this report.</li> </ol>
1013.1	<ol> <li>Add additional approved Exit Signs in rooms or areas requiring two or more exits. Electric signs may be Green or Red. Ensure that al required Exit Signs are easily visible from all directions.</li> </ol>
014.1	24. Repair handrails at stairs and/or ramps, so not to pose a safety hazard.
028.5	25. Ensure that people can get out of the building and to a Public Way or Safe Dispersal Area at least 50 feet away from buildings.
031.2	26. Remove obstructions from all Means of Egress and keep exit accesses, discharges and exits free from Obstructions.
031.4	27. Remove obstructions so that Exit Signs are visible from all points of the room or space.
031.5	28. Install a durable minimum 7" x 10" NOT AN EXIT sign on or above doors which may be confused with exit doors.
1031.10	29. Repair or replace non-operational Emergency Lighting Equipment. Ensure that units are inspected and illuminate for at least 30 seconds each month and tested annually for 90 minutes. Add where required. Keep a Validation Log on the premises.
1104.3	30. Repair or replace all <b>illuminated Exit Signs</b> so they are <b>lit at all times</b> . Replace dead batteries. Ensure that the face of an <b>Externally</b>
104.18	Illuminated Exit Sign has at least 5-foot candles of light present at all times. Ensure that Self-luminous Exit Signs are current. 31. Ensure that Common Path of Exit Travel distances are within acceptable limits per IFC Table 1104.18.

rivate Fire Service Mains and Hydrants serviced now, and annually hereafter, and per LHCFD Specification #05 Water fire hydrants, maintenance and testing standards. orage, trash or other materials from the Access Path from the entry door to the fire protection equipment. itchen Hoods, ducts & cooking equipment cleaned and kept free from accumulations of grease. Keep records on site. wed durable and legible sign(s) stating "FIRE SPRINKLER RISER ROOM" or other approved language, on access doors to rooms where sprinkler risers are located. White sign letters are to be minimum 2" in height on a Red background. Automatic Fire Protection or Detection System serviced, immediately for Repairs, by an approved Licensed Contractor. Automatic Fire Sprinkler System Serviced now and annually hereafter. Affix a current Service Label on the riser. If sprinklers to the Spare Sprinkler Cabinet to ensure at least 6 spare sprinklers represent each type installed in the building e corresponding wrenches are present. NFPA 25 §5.4.1.5.4 & .5 Additional sprinklers may be required. re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
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re Watch procedures when the fire protection system is out of service. See LHCFD Spec. #10 Fire watch order procedure,
tion & notice.
I sprinklers that display unauthorized Paint, Corrosion, or Damage. Relocate sprinklers that are Obstructed.
tic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas that contain Woodworking Operations
of <b>2,500 square feet</b> in area that generate or use finely divided combustible materials (dust).
bstructions impairing the full operation and Coverage Pattern of sprinklers or have sprinklers installed beneath obstructions
n 4-feet in width.
t the fire sprinkler system is being Electronically Supervised by a listed fire alarm control unit (FACU). See LHCFD Spec.
prinkler monitoring
let & Dry Chemical Alternative Automatic Extinguishing Systems serviced now and semi-annually hereafter. Ensure that
service tag is affixed to the equipment in a conspicuous location. See LHCFD Spec. #07 Protection of commercial cooking
<u>S.</u>
O <sub>2</sub> , Halon, and Clean Agent Systems, inspected and tested for proper operation, now and at least annually by personnel
the testing of clean agent extinguishing systems and at checked least <u>semi-annually</u> for agent quantity and pressure.
t all Automatic Sprinkler System Control Valves are supervised and/or secured in the OPEN position.
proved <b>FDC</b> sign, at least 6" in height, with 2" white letters on a Red background, in an approved location, indicating the
the Fire Department Connection. Remove Obstructions to ensure unobstructed access to the FDC.

### FIRE ALARM SYSTEMS

509.1	48. Affix a durable and legible minimum 6-inch "FACP" sign, or other approved language, with white letters on a Red background, on
	doors leading into rooms where Fire Alarm Control Panels are located. See also: NFPA 72 §10.18.3.2
907.6.5	49. Provide Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing.
907.6.6	50. Provide approved Supervising Station Monitoring, in accordance with NFPA 72, for the premises.
907.8.5	51. Have the building's Fire Alarm System serviced now and annually hereafter. Affix a current Service Tag at the FACP and ensure the
	system in an operational condition. The building owner is responsible to maintain all fire and life safety systems.

### FIRE EXTINGUISHERS

906.2	52.	Have expired fire extinguishers serviced or replaced now and annually hereafter. Ensue that current and valid Service Tags are
		attached and dated within one year. An attached sales receipt is acceptable if purchased within one (1) year.
906.3	53.	Install a Minimum 2-A:10-B:C fire extinguisher and additional extinguishers where required. Add extinguishers within a maximum
		travel distance of 75-feet of all areas of the occupancy. Special extinguishers may require shorter travel distances.
		See LHCFD Spec. #03 Portable Fire Extinguisher Requirements.
906.3.2	54.	Install minimum 3-A:40-B:C fire extinguishers in areas involving flammable or combustible liquids within 30 feet of the work areas or
		4-A:80-B:C extinguishers within an 80 feet travel distance.
906.5	55.	Locate fire extinguishers along Exit Paths, preferably near the exits.
906.6	56.	Locate fire extinguishers so that they are Conspicuously Located and Unobstructed. Use Directional Signs where indicated.
906.9	57.	Hang extinguishers on a Wall, using Hangers or Brackets, so that its top is not more than 5-feet above the floor and the bottom is
		not less than 4-inches above the floor; 3.5 feet for >40 pounds. Fire Extinguisher Cabinets may be used in lieu of hooks or brackets.

304.1.2	58. Remove Combustible Waste Material and Dead Vegetation from the buildings and on the premises.
304.3.1	59. Store materials susceptible to Spontaneous Ignition, or those deemed a fire hazard (such as Oily Rags) in self-closing metal cans.
304.3.3	60. Relocate Dumpsters and containers of Combustible Material at least 5-feet away from combustible walls and building openings.
308.3.1	61. Curtail the use of Open-Flame Decorative Devices including Candles. See LHCFD Spec. #14 Candles & other open flame devices.
310.3	62. Affix durable Red/White 'NO SMOKING' signs in areas deemed to be hazardous (i.e. hazardous materials, combustible storage, etc.).
310.6	63. Where Smoking is Permitted, provide suitable non-combustible Ash Trays or cans on each table and at other appropriate locations.
312.1	64. Provide approved Vehicle Impact Protection meeting the standards in LHCFD Spec #15 Vehicle Crash Protection.
315.3	65. Clean up Interior Storage of Combustible Materials so they are stored in an Orderly and stable fashion.
315.3	66. Relocate Heating Equipment, including Space Heaters, at least 3-feet away from combustible materials or provide shielding.
315.3.1	67. Reduce Storage Height to at least 2-feet beneath ceilings in non-sprinklered buildings except along walls.
315.3.1	68. Reduce Storage Height to at least 18-inches beneath the level of sprinkler spray deflectors except along walls.

315.3.2	69.	Remove Combustible Material Storage from exits and Exit Enclosures for stairways and ramps.
315.3.3	70.	Remove Combustible Storage, and refrain from storing these materials in Mechanical Rooms and Electrical Equipment Rooms.
315.4	71.	Remove Dead Vegetation and/or Exterior Combustible Storage within 10-feet of property lines. You may store materials 3-feet away
		from lot lines if piles do not exceed 6-feet in height and approved by the LHCFD. Reduce open storage to below 20' in height.
318	72.	Replace combustible Laundry Carts (= or > 1 cu. yard), with non-combustible carts, within un-sprinklered buildings.
319.1	73.	Ensure that all Mobile Food Preparation Vehicles comply with the IFC. See LHCFD Sec. 28 Mobile food units.
ELECT	RIC	AL
604.1	74.	Remove identified Hazardous Electrical Equipment/Wiring from service. Replace with approved equipment/wiring. See LHCFD Spec.
		#19 Electrical equipment wiring and hazards.
604.1	75.	Replace missing Blank Covers where Breakers are missing in Electrical Panels.
604.1	76.	Remove all spliced and Damaged Flexible Electrical Cords, or appliances and replace with approved wiring.
604.3	77.	Maintain a Clearance around Electrical Panels providing a minimum clear width of 30", a depth of 36", and a height of 78".
604.3.1	78.	Mark Doors leading into Electrical Control Panel Rooms with durable and legible Signs stating "ELECTRICAL ROOM" where the
		room is not obviously an electrical room. Sign to be nominal 5" x 7' size or as approved. ELECTRICAL PANEL signs may be required.
604.3.1	79.	Mark Disconnecting means for each electrical service with legible and Durable Signage, to indicate their purpose, where needed.
604.4	80.	Remove and refrain from using Unfused Multi-plug Adapters (Cube Adapters or plug-strips). Use Fused Power Taps instead.
604.4.1	81.	Install approved Relocatable Power Taps (strips), of the polarized or grounded type, equipped with Overcurrent Protection and
		listed to UL or ETL standards, in lieu of extension cords or unfused devices. Daisy chaining power taps (in series) is prohibited.
604.4.2	82.	Connect Power Taps (strips) directly into permanently installed Outlets. Refrain from connecting power taps in series (Daisy-Chains).
604.4.3	83.	Refrain from affixing Flexible Power Cords to structures; extending power cords through Walls, Ceilings or Floors, beneath Doors
		or Floor Coverings or otherwise subject power cords to Environmental Damage or Physical Impact.
604.5	84.	Remove all Unauthorized Extension Cords used in lieu of permanent wiring. Consider using Fused Power Taps instead (see above).
604.5.1	85.	Ensure that all permitted Temporary Extension Cords are sized appropriately to supply only 1 appliance.
604.6	86.	Provide approved covers over all Electrical Boxes and Junction Boxes with Open Wiring Splices, Switches and Outlets.
604.8	87.	Repair Electrical Motors to keep them free from accumulations of oil waste and other debris. Clean up Leaks and Spills.
604.10	88.	Ensure that all Portable Electric Space Heaters are located at least 3-feet from combustible materials, are not located beneath desks,
		and are connected Directly into Approved Receptacles.

MISCE	LLANEOUS	
LHCC	89. Obtain a current Lake Havasu City Business License. Post your license in a Conspicuous Location on site (LHC Code §5.04.020	0).
110.1.1	90. Ensure that the Structures and Conditions are Safe and Free from Hazards posing undue Risks to Firefighters.	
3205.1	91. Either bolt down <b>Storage Racks</b> to the floor where the top shelf exceeds 8' in height or reduce the height of the top shelf at or below feet. Contact the LHC Building Division regarding requirements for properly securing your racks.	/ 8
503.2.1 503.3	92. Mark all Fire Lanes, keeping an Unobstructed width of at least <u>20-feet</u> and vertical clearance of at least <u>13-feet 6-inches</u> , per <u>LHCF</u> Spec # 01 Fire Apparatus Access & Marking of Fire Lanes.	FD
503.4	93. Maintain all Fire Lanes to include Signs and approved Curb Markings (See item above).	
503.6	94. Install an approved means of emergency operation Knox Key Switch for your security gates for emergency access in an approve location. Ensure that the emergency operation feature is maintained operational at all times.	ed
504.2	95. Affix a <b>Durable Sign</b> with minimum <b>6</b> " <b>high letters</b> , on a <b>contrasting background</b> , stating " <b>THIS DOOR BLOCKED</b> ", on firefighter access doors that are authorized to be obstructed by structure, drywall, racking, approved storage, etc.	all
505.1	96. Affix durable, <u>minimum 6</u> " Building Address numbers on all buildings and suites, <u>fronting the property</u> , large enough and on contrasting background, so they are easily <u>visible from the street</u> , and per LHC FD Spec # 02 Posting Premise Identification.	۱a
505.1	97. Affix durable, minimum 4" Individual Suite Address Numbers, adjacent to the suites, and large enough to be Visible from the Street	et.
506.1	98. Where Access to a structure, area, or secured openings are restricted, or immediate access is necessary for life-saving or firefighting purposes exists, install a Knox Box and/or provide building keys, per LHC FD Spec #04 Knox Rapid Entry System, when required	•
506.2	99. Provide appropriate Essential Keys to deposit into the Knox Box by a member of the Lake Havasu City Fire Department.	
507.5.5	100. Clear an area around Private Fire Hydrants so that they are accessible within a 3-foot Diameter around the Hydrant.	
3504.1	101. Ensure that all <b>Welding, Cutting</b> and other <b>Hot Work Operations</b> are carried out in a safe manner. See <u>LHCFD Spec #6 Welding and other hot works.</u>	

603.4.2.1.1	102. Relocate the storage or use of Portable Outdoor Gas-fired Heating Appliances to an approved outdoor location.
2301.1	103. Refrain from Dispensing Fuels from unauthorized containers/locations. See LHCFD Spec. #21 Standards for Temporary AST & Motor
	Fueling Dispensing.
2311.2.3.2	104. Dispose of Oily Rags and waste in approved self-closing metal cans. Obtain and locate Oily Waste Cans where needed.
5003.1.1	105. Reduce storage and/or use of HM below the Maximum Allowable Quantity (MAQ) Per Control Area as prescribed in the IFC.
5003.5	106. Install or maintain visible Hazard Identification Signs as specified in NFPA 704 for the specific material contained on stationary containe
	and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled per LHCF
	Specification #25 Hazardous Materials Storage, Dispensing, Use & Handling.
5003.5.1	107. Mark Individual Containers of hazardous materials in an approved manner to easily identify the contents.
5003.7.1	108. Post durable "NO SMOKING" signs at all entrances to the facility or area. Create Designated Smoking Areas within or outside suc
	facilities where smoking is permitted, and identify with signs designating that "Smoking is Permitted in This Areas Only".

5003.9.8	109. Separate incompatible HM where containers have a capacity of more than 5-pounds or 1/2 gallon (e.g. acids from oxidizers 20'). Se LHCFD Spec. #20 Safe display storage of pool chemicals.
5003.9.9	110. Arrange Shelf Storage, of Flammable and Combustible Liquid containers, so it is neat and orderly. Anchor or Brace racks and provid a Lip or Guard where used for the storage of individual containers to prevent their displacement.
5303.5.3	111. Chain or otherwise secure <b>Compressed Gas Cylinders</b> , to structure, to protect them from <b>Knock Over</b> .
5307.3	<ul> <li>Install or maintain required insulated Carbon Dioxide (CO2) Detection Systems used in beverage dispensing applications.</li> <li>See LHCFD Spec. #18 Insulated liquid CO2 systems used in beverage dispensing areas.</li> </ul>
5704.3.4.4	114. Store Flammable / Combustible Liquids, >10 gallons within buildings, inside approved Liquid Storage Cabinets or reduce.
6103.2.1.6	115. Eliminate portable LP-Gas containers, >2.7 pounds water capacity (nominal), used with self-contained Torch Assemblies.
6104.1	116. Remove Consumer type [DOT] Liquefied Petroleum-Gas cylinders from indoor locations in unauthorized occupancies
6109	117. Comply with LHCFD Specification #12 Standards For Installation of LP-Gas Container Exchange Stations (online)
	STIBLE DUST-PRODUCING OPERATIONS (ADDENDUM)
2203.1	118. As the operator of a facility which generates combustible dust, ensure compliance with NFPA 652 Fundamental of Combustible Dust. See LHCFD Spec. #16 Standard for combustible dust control.
2203.2	119. Perform a <b>Dust Hazard Analysis (DHA)</b> in accordance with § 7.1.2 of NFPA 652 and meet the requirements of NFPA 652 as it applies to all new and existing facilities and operations with combustible dust hazard.
2203.3	120. Eliminate all <b>Sources of Ignition</b> , including space heaters, open flame, or the use of spark-producing equipment in areas where <b>Combustible Dust</b> is generated.
2203.4	121. Refrain from using <b>Compressed Air</b> or similar methods to remove dust from surfaces. Use dry mop or vacuum to collect the dust.
2203.4	122. Install, repair or replace Dust Collection Systems and Ducting to eliminate the combustible dust from suspending in the air.
FLAMM	ABLE FINISHES (ADDENDUM)
2404.2	123. Ensure that all <b>Flammable Spray-Finishing</b> operations are conducted in a spray room, spray booth or limited spraying space approved
-	for such use. Refrain from spraying flammable or combustible liquids in unauthorized areas.
2404.3	124. See LHCFD Spec. #09 Flammable Finishes & Spray Booths.
2404.3	125. Consult with a qualified spray operations consultant regarding the <b>Design and Construction</b> of proposed <b>Spray Rooms</b> , <b>Spray Booths</b> or <b>Spray Spaces</b> which must be in accordance with the IFC and applicable NFPA Standards.
2404.4	126. Spray booths and spray rooms must be <b>Protected by an Approved Automatic Fire-extinguishing System</b> complying with IFC Ch. 9. Ensure that <b>Fire Protection</b> extends to exhaust plenums, exhaust ducts and both sides of dry filters where such filters are used.
2404.5.2	127. Protect fire sprinklers installed in <b>Flammable Vapor Areas</b> from the accumulation of <b>Residue</b> from spraying operations in an approved manner. <b>Bags</b> used as a protective covering shall be 0.003-inch-thick polyethylene or cellophane.
2404.5.2	128. Replace Damaged Fire Sprinklers, contaminated by overspray particles, with new automatic sprinklers.
	129. Insure that the <b>Interlocks</b> for spraying apparatus, <b>Drying Apparatus</b> and ventilating system for the spray booth or spray room are installed and in working order.
2404.6.2	<ol> <li>Ensure that where spraying spaces, spray rooms or spray booths are Illuminated through Glass Panels or other transparent materials, only approved fixed lighting units are utilized as a source of Illumination. Repair or replace broken or missing glass panels.</li> </ol>
2404.7	<ul> <li>131. Ensure that Mechanical Ventilation is in operation at all times while spraying operations are being conducted and for a sufficient time thereafter and that spraying equipment is Interlocked with the ventilation of the flammable vapor areas such that spraying operations cannot be conducted unless the ventilation system is in operation.</li> </ul>
2404.7.8.3	<ul> <li>132. Repair or replace damaged or missing Visible Gauges (e.g. Manometers), audible alarms or pressure-activated devices to indicate or ensure that the required air velocity is maintained in the spraying apparatus.</li> </ul>
2404.9	<ul> <li>133. Limited spraying spaces (LSS) must not exceed 9 sq. ft. and spray operations must not be of a continuous nature. Positive mechanical ventilation providing not fewer than 6 complete air changes per hour must be installed and must meet the requirements of the fire code for handling flammable vapor areas. Electrical wiring within 10 feet of the floor and 20 feet horizontally of the LSS shall be designed for Class I, Division 2 locations in accordance with NFPA 70. Apply for approval if the conditions can be met.</li> </ul>
IRE PR	OTECTION BY FIRE RATED CONSTRUCTION
701.5	134. Repair damaged and missing <b>Fire-resistance-rated Construction</b> including drywall. Ensure integrity of wall and ceiling openings.
705.2	135. Renair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional

705.2	135. Repair or replace inoperable Fire Door Assemblies. Ensure that they are unmodified and are fully functional.
705.2.1	136. Have Fire Door(s) inspected and maintained by an Approved Third-party Certification Organization accredited for listing the
	Opening Protective, and have a Service Label applied to the door in an approved location.
705.2.2	137. Permanently display on or near each <b>Fire Door</b> in letters not less than 1 inch high to read as follows:
	1. For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.
	<ol><li>For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.</li></ol>
705.2.4	138. Repair or replace Swinging Fire Doors so they Close from the full open position and Latch automatically
705.2.6	139. Have all horizontal, vertical and rolling Fire Doors Inspected and Tested now and annually hereafter. Keep service records on site.
807.2	140. Reduce the amount of combustible Curtains and other Decorative Materials, from walls and ceilings exceeding 10% of the wall or
807.4.3.2	ceiling area, or treat with Fire Retardant, per NFPA 701 standards where approved.
807.5.2.2	141. Reduce the amount of Combustible Artwork and Teaching Materials, from Corridor walls exceeding 20% in Group E (Schools).
807.5.2.3	142. Reduce the amount of Combustible Artwork and Teaching Materials, from Classroom walls exceeding 50% in Group E (Schools).