

City of Prescott Fire 2024 International Fire Code Significant Changes

CODE SECTION	SCOPE OF CODE CHANGE	CODE CHANGE YEAR	TYPE OF CHANGE TO CODE SECTION	FIELD INSPECTION	NOTES ON PLANS	DETAILS ON PLANS	MISC. NOTES
104 Duties and Powers of the Fire Code Official	The provisions for review and approval of alternative methods are revised and clarified. The alternative method criteria are now the same in all the International Codes (I-Codes) [®] , enhancing the uniformity and application of companion codes.	2024	Modification				
202 Definition of Emergency Responder Communications Enhancement System	The two-way emergency responder communications system is now referred to as the emergency responder communications enhancement system, and several other definitions are included to assist in applying these regulations.	2024	Addition				
202 Definition of Flammable Gas	The category of flammable gas has been subdivided into two subcategories based on flammability characteristics.	2024	Modification				
202 Definition of Occupiable Roof	The term occupiable roof now includes human occupancy on rooftops for purposes other than maintenance and repair.	2024	Addition				
202 Definition of Puzzle Rooms	Puzzle rooms are defined in the code and included under the general definition of special amusement areas.	2024	Modification				

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203 Occupancy Classification and Use	Occupancy classifications are removed from the list of definitions in Chapter 2 and relocated to a new Section 203 to improve user understanding and enhance correlations with the IBC .	2024	Clarification				
304 Trash Collection and Containers	The requirements for waste containers are reorganized to improve clarity and application. Requirements for valet trash collection are added.	2024	Modification				
304.3.6, 304.3.7, 808.1 Trash Containers	Provisions for waste and linen containers in institutional and ambulatory care facilities are relocated to Section 304.3 .	2024	Modification				
314.4 Indoor Vehicle Display	Revisions are made to address the newer alternative fuels and power systems found in today's vehicles.	2024	Modification				
317 Vegetative Roofs	Landscaped and vegetative roofs are defined separately since they have different applications.	2024	Modification				
320 Battery Storage	Requirements pertaining to the storage of lithium-ion and lithium metal batteries are added to address the significant fire hazard that occurs during thermal runaway.	2024	Addition				
322 Powered Micromobility Devices	Requirements are added to regulate the use and recharging of lithium-ion or lithium metal battery powered micromobility devices.	2024	Addition				

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403.10.6 Fire Safety Plan for Lithium-Ion Batteries	A fire safety and evacuation plan must be maintained for most areas using lithium-ion or lithium metal batteries.	2024	Addition				
510.4.1.1, 510.4.1.2 ERCES Signal Strength	The measurement of the downlink signal strength in an ERCES system is based on the Delivered Audio Quality of 3.0.	2024	Modification				
510.4.2.8, 510.4.2.9 Emergency Responder Communications Enhancement System (ERCES)	Additional requirements are included for emergency responder communications enhancement systems to deal with signal interference and the near-far effect.	2024	Modification				
608.1.1 CO₂ Mechanical Refrigeration Systems	Mechanical refrigeration systems utilizing carbon dioxide (CO ₂) as a refrigerant are now regulated in the IFC .	2024	Addition				
608.1, 608.9 Ammonia Mechanical Refrigeration Systems	Requirements for ammonia refrigeration systems are contained in IIAR standards rather than the IFC .	2024	Modification				

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608.12 Storage of Refrigerants	Refrigerant gases temporarily removed from equipment during repair or maintenance are not considered as storage of gases for maximum allowable quantity purposes.	2024	Modification				
705.2.7 Rolling Fire Door Testing	Rolling steel fire doors must be inspected, tested and reset by a trained fire door systems technician on an annual basis.	2024	Modification				
803.11.1 Foam Plastics	Foam plastics can be used as interior finish provided the materials comply with specified test standards.	2024	Modification				
903.2 Sprinklers on Batteries for Telecommunication	Sprinkler protection in areas containing batteries at telecommunication facilities is only exempted for batteries that do not exceed 50 VAC and 60 VDC and are installed in accordance with NFPA 76.	2024	Clarification				
903.2, 903.3 Sprinklers for Battery Storage, Testing and Vehicle Repair	A sprinkler system is required for facilities where lithium-ion batteries or lithium metal batteries are developed, tested, manufactured and stored, and also where vehicles powered by lithium-ion or lithium metal batteries are repaired.	2024	Modification				
903.2.8.3 Sprinklers in Group R-4	An automatic sprinkler system with a minimum design to NFPA 13R is required in Group R-4 Condition 2 occupancies.	2024	Clarification				

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903.3.1.1.1 Sprinkler System Exempt Locations	Two exempt sprinkler locations have been consolidated to eliminate confusion and clarify where sprinkler systems may be omitted.	2024	Modification				
903.3.1.2 NFPA 13R Sprinkler Installations	Group R-2 occupancies are allowed to use NFPA 13R sprinkler system where the height to the roof assembly does not exceed 45 feet when measured from the lowest level of fire department vehicle access.	2024	Modification				
903.4, 903.3.9 Sprinkler System Supervision and Alarms	The sprinkler alarm supervision and monitoring provisions are reformatted. The exterior water flow alarms are specifically removed for one- and two-family dwellings, while a requirement for a visual water flow alarm is added for other occupancies.	2024	Modification				
904.12 Hybrid Fire-Extinguishing Systems	Hybrid fire-extinguishing systems are now addressed in the IFC .	2024	Addition				
904.14.1 Manual Actuation Device	A new exception allows placement of a manual actuation device at distances other than 10-20 feet from cooking areas.	2024	Modification				
905.3, 905.4 Standpipe Locations	Requirements are clarified to eliminate confusion and provide guidance as to which buildings require standpipes and where the stand-pipes need to be located.	2024	Clarification				

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905.3.4, 905.5.1 Standpipes on Stages	Standpipes are no longer required on stages or on tiers of dressing rooms in Group A-1 or A-2 occupancies.	2024	Deletion				
907.2.1 Group A Fire Alarm	Manual fire alarms and emergency voice/alarm communication systems are not required for certain outdoor, bleacher-type seating facilities classified as Group A-5.	2024	Modification				
907.2 Fire Detection for Lithium-Ion and Lithium Metal Batteries	A fire alarm and detection system is required where lithium-ion or lithium metal batteries are developed, tested or manufactured, and where stored in battery storage rooms in Group M or S occupancies.	2024	Addition				
907.2.11.3 Installation Near Cooking Appliances	As of January 1, 2025, all smoke alarms must be listed for resistance to common nuisance sources from cooking appliances.	2024	Modification				
907.5.2.1.3 Audible Alarm Signal Frequency	The 520-Hz low-frequency alarm is now required in Group I-1 sleeping rooms.	2024	Modification				
907.10 Smoke Alarm Maintenance	Specific criteria on when smoke alarms must be replaced, and what type of audible alarm is required from the replacement smoke alarm, are added to the code.	2024	Clarification				

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Tables 911.1, 5003.8.2 Explosion Hazard— Flammable Gas and Consumer Fireworks	Tables 911.1 and 5003.8.2 include revisions for Category 1B flammable gases and consumer fireworks classified as Division 1.4G explosives.	2024	Modification				
912.5 Fire Department Connection Signs	Signs for fire department connections must indicate the type of system served and any specific pressure requirements.	2024	Modification				
914.3.1.1 Sprinkler Risers in High-Rise Buildings	Standpipe risers must be protected the same as sprinkler risers, and multiple risers are required in buildings greater than 420 feet in height.	2024	Modification				
914.6.1 Sprinklers Under Catwalks	Fire sprinklers are required beneath catwalks and galleries only when NFPA 13 requires sprinklers beneath the obstruction.	2024	Modification				
914.7, 907.2.12 Fire Alarms in Special Amusement Areas	Fire detection and alarm requirements are modified in special amusement areas along with an exception that eliminates puzzle rooms from complying if they provide readily available exits.	2024	Modification				
915.1 Carbon Monoxide Alarms	Carbon monoxide (CO) detection is required in all occupancies containing a carbon monoxide source. Detection and notification can be addressed in several ways, and a definition is added to clarify where CO detection is required.	2024	Modification				

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915.2 Carbon Monoxide Detection Locations	The location of carbon monoxide detectors is specified based on occupancy classification, type of use, or type of carbon monoxide source.	2024	Addition				
915.3, 915.5 CO Alarms and Fire Alarms	Criteria for the installation of CO alarms and CO detectors is provided, including the requirement to connect CO detectors to the fire alarm system in buildings required to install a fire alarm system.	2024	Addition				
917.2 Mass Notification in Group E	A mass notification risk analysis is required for Group E occupancies with an occupant load of 500 or more.	2024	Addition				
Table 1004.5, 1004.8 Information Technology Equipment	Information technology equipment rooms, along with appropriate definitions, are added to the code to address information technology equipment facilities.	2024	Addition				
Tables 1006.3.3, 1006.3.4(1), 1006.3.4(2) Egress from Occupiable Roofs	Determination of the minimum number of exits from an occupiable roof now uses Table 1006.3.3 , 1006.3.4(1) or 1006.3.4(2) .	2024	Modification				
Table 1010.2.4, 1010.2.5 Locks and Latches	The requirements for manual bolts and automatic bolts are reformatted and clarified.	2024	Modification				

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1010.2.6 Stairway Doors	Additional requirements for unlocking stairway doors are added.	2024	Modification				
1010.2.9 Access Control Systems	When a door is provided with access control, several options are available for controlling egress, including no restriction of egress.	2024	Clarification				
1010.2.14 Elevator Lobby Exit Access Doors	Doors between an elevator lobby and the tenant spaces on a floor can be locked for security purposes provided the unlocking criteria is met.	2024	Addition				
1013.2 Low-Level Exit Signs in Group R-1	Low-level exit signs are not required in a Group R-1 occupancy equipped with an automatic sprinkler system.	2024	Modification				
1017.2.3 Group H-5 Exit Access Travel Distance Increase	Exit access travel distance is increased to 300 feet when specific building design criteria are met.	2024	Modification				
1029.3 Construction of Egress Courts	When an egress court is less than 10 feet wide, it can either be protected by 1-hour fire-resistance-rated construction or be provided with two egress paths.	2024	Modification				

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1032.2.2, 1104.16.5.1, 1104.16.7 Fire Escape Maintenance	The requirements for maintenance of fire escape stairways are relocated from Chapter 11 to Section 1032 , which addresses maintenance of the means of egress.	2024	Modification				
1103.9 Carbon Monoxide Alarms in Existing Buildings	Existing buildings with a carbon monoxide source are required to retroactively install carbon monoxide detection.	2024	Modification				
1107 Existing Lithium-Ion Energy Storage Systems	The level of potential hazard and needed mitigation for existing energy storage systems utilizing lithium-ion batteries must be evaluated if the energy storage system was constructed under code requirements prior to the 2018 IFC .	2024	Addition				
1201.1, 1207.1 Energy Storage Systems Under Utility Control	Energy storage systems under the exclusive control of an electric utility must comply with Chapter 12 and NFPA 855.	2024	Modification				
1205.2.3 Markings for Building-Integrated Photovoltaic Systems	The requirements for marking the roof for firefighting operations have been clarified.	2024	Clarification				

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1207.2.1 Energy Storage System Commissioning Plan	Two exceptions address commissioning requirements for energy storage systems with lead-acid batteries or nickel-cadmium batteries.	2024	Clarification				
Tables 1207.1.3, 1207.5, 1207.6 Energy Storage System Technologies	New battery technologies used for energy storage systems are included in the code.	2024	Modification				
1207.5.5 Sprinklers for Energy Storage Systems	Sprinkler design criteria is revised to specify limitations in its application.	2024	Modification				
1207.11 Energy Storage Systems in Group R-3 and R-4	Several revisions occurred dealing with energy storage systems in Group R-3 or R-4 occupancies.	2024	Modification				
2404.2, 2404.3 Prohibited Enclosures for Spray Application Operations	Inflatable or portable enclosures for spray application of flammable finishes is prohibited except in marina, dry docks and construction areas.	2024	Addition				

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2404.5 Limited Finishing Workstation	A limited finishing workstation is now allowable for spray application of flammable finishes.	2024	Addition				
Table 2704.2.2.1 Hazardous Material Limits in a Fabrication Area	The allowed density of certain hazardous materials in a fabrication area has increased, which results in larger quantities allowed in fabrication areas.	2024	Modification				
3103.5, 3103.9.1 Water-Filled Vessels for Tent Anchoring	Water-filled vessels can be used to anchor tents when they meet the load specifications for the specific tent.	2024	Modification				
3106 Inflatable Amusement Devices	Inflatable amusement devices are added to the code and have requirements for combustibility and operation.	2024	Addition				
3107.5.1, 3108.4, 3108.12, 4104.4, 4104.5 Cooking in Tents	Separation distances for tents used for cooking have been reduced.	2024	Modification				
3208.3 Flue Spaces	The storage rack structure is not considered an obstruction when measuring the width of a transverse flue space.	2024	Modification				

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Chapter 33 Fire Safety During Construction	Chapter 33 has been significantly reformatted to assist in usability and clarity.	2024	Clarification				
3312.1 Protection of Mass Timber	When mass timber buildings install a single layer of noncombustible protection so construction can continue above six stories, the floor surfaces do not need to be protected.	2024	Clarification				
3901, 105.5.26 Plant Cultivation	Chapter 39 applies to facilities with plant processing and solvent-based extraction processes and now includes criteria for lighting systems and carbon dioxide enriched environments used in cultivation.	2024	Modification				
3903.7 Means of Egress	Exit doors and exit access doors serving an extraction room must swing in the direction of egress.	2024	Addition				
3905.3 Ventilation During Extraction	Minimum ventilation requirements are included to address ventilation requirements in extraction rooms and during post-extraction processes.	2024	Addition				
4005 Protection of Distilled Spirits in Wooden Barrels	Specific design criteria are included for automatic sprinkler systems protecting distilled spirits in wooden barrels.	2024	Addition				

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Chapter 41 Temporary Heating and Cooking Operations	A new chapter is provided to address temporary heating and cooking operations and correlate the requirements from various locations in the code.	2024	Addition				
4106 Mobile Food Preparation Vehicles	NFPA 96 is added as a standard for design and operation of mobile food preparation vehicles.	2024	Modification				
Table 5003.1.1(5) Hazardous Materials Exemptions	A new table is included in Chapter 50 to assist in determining whether certain uses or functions are exempt from application of Chapter 50 requirements.	2024	Modification				
Table 5003.11.1 Solid Oxidizers in Retail	The maximum allowable quantity of Oxidizer Class 3 solid materials is increased in the retail setting from 1,350 pounds to 1,500 pounds.	2024	Modification				
5003.11.2 Flammable Gas Category 1B in Groups M and S	The maximum allowable quantity per control area for Category 1B flammable gas with a low burning velocity is specified for Group M retail facilities and Group S storage occupancies.	2024	Addition				

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5003.13 Rooftop Storage of Hazardous Materials	Hazardous materials are allowed to be stored or used on a building roof provided the quantity does not exceed the maximum allowable quantity of hazardous materials allowed on the story below the roof.	2024	Addition				
5104 Plastic Aerosol 3 Products	Plastic aerosol 3 products are treated the same as Level 3 aerosol products and included in the determination of allowed quantities.	2024	Clarification				
5705.5, 5001.1 Alcohol-Based Hand Rubs	Floor supported devices for alcohol-based hand rub dispensers are now allowed, and the supply of dispenser refill containers is not included in the maximum allowable quantity.	2024	Modification				
5706.5.4.5 Fleet Fueling for Commercial, Industrial, Governmental or Manufacturing	Class I flammable liquids are now allowed to be dispensed in fleet fueling operations for commercial, industrial, manufacturing or governmental facilities.	2024	Modification				
5809 On-Demand Hydrogen Mobile Fueling	Regulations for on-demand mobile fueling of hydrogen vehicles are added to the code.	2024	Addition				

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E102.1.7.2 Oxidizer Classification	Information is added to Appendix E to assist in correlating the oxidizer classifications in the IFC with the classifications in the <i>Globally Harmonized System</i> .	2024	Modification				
E104 Hazardous Material Definitions in GHS	A cross reference between the IFC hazardous material classification system and the <i>Globally Harmonized System</i> is included in Appendix E .	2024	Addition				
Appendix O Valet Trash and Recycling Collection in Group R-2 Occupancies	Criteria regulating valet trash collection has been added to the code, but valet trash collection service is only allowed where approved by the fire code official.	2024	Addition				