2025 Oregon Fire Code

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This edition of the Oregon Fire Code is dedicated in memory of Theodore Megert (June 1937-July 2025).

Ted Megert's unwavering commitment to fire safety and code enforcement spanned more than five decades. He served the state of Oregon with distinction, beginning his career in 1961 with Portland Fire and Rescue, where he dedicated 29 years, and later continuing as an Oregon Deputy State Fire Marshal until his retirement in 2018.

Ted's legacy is deeply rooted in the principles of fire prevention and community protection. A man of quiet professionalism, generous mentorship and relentless pursuit of excellence, his influence remains woven throughout this document. We honor his lifetime of public service with lasting gratitude, and this edition of the *Oregon Fire Code* stands as a testament to his enduring impact and values.

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PREFACE

INTRODUCTION TO THE OREGON FIRE CODE

The Oregon Fire Code (OFC) is the statewide fire code adopted and administered by the Oregon State Fire Marshal. The OFC is based on the model International Fire Code® (IFC®) published by the International Code Council, with Oregon-specific amendments that reflect the unique needs, rules and statutory framework of the state. The OFC establishes minimum fire safety requirements for existing buildings, facilities, storage and operational processes. The OFC works primarily in tandem with the Oregon Structural Specialty Code (OSSC) for new building construction, in a partnership administered by the Oregon Building Codes Division.

The OFC governs fire prevention, fire protection, life safety, and the safe storage and use of hazardous materials in new and existing structures and uses. It provides a comprehensive framework for identifying and controlling fire and life safety hazards, whether they are located indoors or outdoors.

The OFC functions both as a design document as well as an operational code. For example, prior to constructing a building, an adequate water supply must be provided for firefighting operations, and access must be ensured for emergency responders in the event of a fire, medical emergency, or natural or technological disaster. Depending on occupancy type and building use, the OFC regulates specific hazards such as mobile food units, solar farms, fireworks, valet trash, and the storage and use of hazardous materials.

The OFC establishes minimum requirements for mitigating such hazards, safeguarding occupants, protecting emergency personnel and reducing property damage caused by fire, explosions or the uncontrolled release of hazardous substances.

Understanding the scope and applicability of the OFC is essential. Sections 102.1 and 102.2 outline the circumstances under which the construction, design, administrative, maintenance and operational provisions apply within the framework of ORS 476.030. In general, construction and design requirements apply to new buildings. Operational and maintenance requirements apply to all buildings and facilities, whether new or existing.

By adopting and enforcing the 2025 *Oregon Fire Code*, the Oregon State Fire Marshal, with cooperation of assistants, ensures a consistent and enforceable standard of fire and life safety throughout Oregon's communities.

ARRANGEMENT AND FORMAT OF THE 2025 OFC

Before applying the requirements of the 2025 *Oregon Fire Code* (2024 IFC), it is beneficial to understand its arrangement and format. The IFC, like other codes published by the ICC, is arranged and organized to follow sequential steps that generally occur during a plan review or inspection.

The IFC is organized into seven parts. Each part represents a broad subject matter and includes the chapters that logically fit under the subject matter of each part. It is also foreseeable that additional chapters will need to be added in the future as regulations for new processes or operations are developed. Accordingly, the structure was designed to accommodate such future chapters by providing reserved (unused) chapters in several of the parts. This will allow the subject matter parts to be conveniently and logically expanded without requiring a major renumbering of the IFC chapters.

CHAPTER TOPICS			
PARTS AND CHAPTERS SUBJECTS			
Part I—Chapters 1 and 2	Administrative and definitions		
Part II—Chapters 3 and 4	General safety provisions		
Part III—Chapters 5 through 12	Building and equipment design features		
Part III—Chapters 13 through 18	Reserved for future use		
Part IV—Chapters 19 through 41, 49	Special occupancies and operations		
Part IV—Chapters 42 through 48; 52	Reserved for future use		
Part V—Chapters 50, 51 and 53 through 67	Hazardous materials		
Part V—Chapters 68 through 79	9 Reserved for future use		
Part VI—Chapter 80	Referenced standards		
Part VII—Appendices A through O Adoptable and informational appendices			

2025 OREGON FIRE CODE iii

International Building Code Correlated Topics

The IFC requirements for fire-resistance-rated construction, interior finish, fire protection systems, means of egress and construction safeguards are directly correlated to the chapters containing parallel requirements in the IBC as follows:

IFC/IBC CORRELATED TOPICS			
IFC CHAPTER/SECTION IBC CHAPTER/SECTION SUBJECT			
Chapter 7	Chapter 7	Fire and smoke protection features (Fire-resistance-rated construction in the IBC)	
Chapter 8	Chapter 8	Interior finish, decorative materials and furnishings	
Chapter 9	Chapter 9	Fire protection and life safety systems	
Chapter 10	Chapter 10	Means of egress	
Section 1203	Chapter 27	Emergency and standby power	
Chapter 31	Section 3103	Temporary structures	
Chapter 33	Chapter 33	Construction fire safety	
Chapters 50–67	Sections 307, 414, 415	Hazardous materials and Group H requirements	

PART I—ADMINISTRATIVE

Chapter 1 Scope and Administration.

Chapter 1 establishes the limits of applicability of the code and describes how the code is to be applied and enforced. The provisions of Chapter 1 establish the authority and duties of the code official appointed by the authority having jurisdiction and also establish the rights and privileges of the design professional, contractor and property owner.

Chapter 2 Definitions.

Chapter 2 is the repository of the definitions of terms used in the body of the code. The user of the code should be familiar with and consult this chapter because the definitions are essential to the correct interpretation of the code and because the user may not be aware that a term is defined.

PART II—GENERAL SAFETY PROVISIONS

Chapter 3 General Requirements

General regulations contained in Chapter 3, are intended to improve premises safety for everyone, including construction workers, tenants, operations and maintenance personnel, and emergency response personnel.

Chapter 4 Emergency Planning and Preparedness

Chapter 4 addresses the human contribution to life safety during emergencies. Continuous training and scheduled fire, evacuation and lockdown drills can be as important as the required periodic inspections and maintenance of built-in fire protection features. The level of preparation by the occupants also improves the emergency responders' abilities during an emergency.

PART III—BUILDING AND EQUIPMENT DESIGN FEATURES

Chapter 5 Fire Service Features

The requirements of Chapter 5 apply to all buildings and occupancies and pertain to access roads, access to building openings and roofs, premises identification, key boxes, fire protection water supplies, fire command centers, fire department access to equipment, and in-building emergency responder communication system coverage.

Chapter 6 Building Services and Systems

Chapter 6 provides a more systematic view of building systems and services as they relate to potential safety hazards and when and how they should be installed.

Chapter 7 Fire and Smoke Protection Features

The maintenance of assemblies required to be fire-resistance rated is a key component in a passive fire protection philosophy. Chapter 7 sets forth requirements to maintain required fire-resistance ratings of building elements and limit fire spread. Section 701 addresses the basics of what construction elements such as fire barriers and smoke barriers need to be maintained as well as defining the owner's responsibility. Sections 703 through 708, deals with various fire and smoke protection features that must also be maintained.

iv 2025 OREGON FIRE CODE

Chapter 8 Interior Finish, Decorative Materials and Furnishings

The overall purpose of Chapter 8 is to regulate interior finishes, decorative materials and furnishings in new and existing buildings so that they do not significantly add to or create fire hazards within buildings. This chapter is consistent with Chapter 8 of the IBC, which regulates the interior finishes of new buildings.

Chapter 9 Fire Protection and Life Safety Systems

Chapter 9 prescribes the minimum requirements for active systems of fire protection equipment to perform the following functions: detect a fire, alert the occupants or fire department of a fire emergency, and control smoke and control or extinguish the fire. Generally, the requirements are based on the occupancy, the height and the area of the building because these are the factors that most affect firefighting capabilities and the relative hazard of a specific building or portion thereof. This chapter parallels and is substantially duplicated in Chapter 9 of the IBC; however, this chapter also contains periodic testing criteria that are not contained in the IBC. In addition, the special fire protection system requirements based on use and occupancy found in IBC Chapter 4 are duplicated in IFC Chapter 9 as a user convenience.

Chapter 10 Means of Egress

The criteria in Chapter 10 regulating the design of the means of egress system are established as the primary method for protection of occupants by allowing timely relocation or evacuation. Both prescriptive and performance language is utilized for determination of a safe exiting system. It addresses all portions of the means of egress system (i.e., exit access, exits and exit discharge) and includes design requirements as well as provisions regulating individual components. The requirements detail the size, arrangement, number and protection of means of egress components. The means of egress protection requirements work in coordination with other sections of the code, such as protection of vertical openings (see Chapter 7 of the IBC), interior finish (see Chapter 8 of the IBC), fire suppression and detection systems (see Chapter 9) and numerous others, all having an impact on life safety. Chapter 10 of the IBC is duplicated in Chapter 10 of the IFC; however, the IFC contains one additional section on the maintenance of the means of egress system in existing buildings.

Chapter 11 Fire and Life Safety Requirements for Buildings Constructed Prior to a State Building Code

Chapter 11 applies to existing buildings constructed prior to the adoption of a state building code. In Oregon, that retroactivity is limited statutorily to buildings constructed prior to the adoption of the state building code, first adopted July 1, 1974. Locally adopted and enforced building codes applicable at the time of construction, prior to the 1974 state code, may be approved.

Once the structure not built to a state building code complies with Chapter 11, all the provisions of Table 1103.1 and Sections 1103.2 through 1103.10 contained within that code edition shall be maintained as the building's minimum fire and life safety requirements.

Chapter 12 Energy Systems

Chapter 12 addresses any provisions related to energy systems found in the IFC. The expansion of such energy systems is related to meeting today's energy, environmental and economic challenges. Ensuring appropriate criteria to address the safety of such systems in building and fire codes is an important part of protecting the public at large, building occupants and emergency responders. These requirements also facilitate the successful implementation of new technologies.

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Chapters 13 through 18 Reserved for future use.

PART IV—SPECIAL OCCUPANCIES AND OPERATIONS

Chapter 19 Fire Watch

Chapter 19 provides general requirements and the documentation needed for conducting a fire watch. The term "fire watch" is used in several places throughout the code. A fire watch, sometimes referred to as standby personnel, provides temporary fire safety where there are potential hazards, such as during hot work operations or when fire protection systems are out of service.

Chapter 20 Aviation Facilities

Chapter 20 specifies minimum requirements for the fire-safe operation of airports, heliports and helistops. The principal nonflight operational hazards associated with aviation involve fuel, facilities and operations. Therefore, safe use of flammable and combustible liquids during fueling and maintenance operations is emphasized. Availability of portable Class B:C-rated fire extinguishers for prompt control or suppression of incipient fires is required. This chapter also addresses the minimum safety standards when trans-

2025 OREGON FIRE CODE v

ferring flammable and combustible liquids from the distributor tank vehicle into tanks of tank vehicles at airport sites, formally outlined in Appendix S.

Chapter 21 Dry Cleaning

The provisions of Chapter 21 are intended to reduce hazards associated with the use of flammable and combustible dry cleaning solvents. These materials, like all volatile organic chemicals, generate significant quantities of static electricity and are thus readily ignitable. Many flammable and nonflammable dry cleaning solvents also create health hazards when involved in a fire.

Chapter 22 Combustible Dust-Producing Operations

The requirements of Chapter 22 seek to reduce the likelihood of dust explosions by managing the hazards of ignitable suspensions of combustible dusts associated with a variety of operations, including woodworking, mining, food processing, agricultural commodity storage and handling, and pharmaceutical manufacturing, among others. Ignition source control and good housekeeping practices in occupancies containing dust-producing operations are emphasized.

Chapter 23 Motor Fuel-Dispensing Facilities and Repair Garages

Chapter 23 provides provisions that regulate the storage and dispensing of both liquid and gaseous motor fuels at public and private automotive, marine and aircraft motor fuel-dispensing facilities, and fleet vehicle motor fuel-dispensing facilities. In addition, this chapter addresses the various hazards created by the use of both liquid and gaseous fuels within repair garages.

Chapter 24 Flammable Finishes

Chapter 24 requirements govern operations where flammable or combustible finishes are applied by spraying, dipping, powder coating or flow-coating processes. As with all operations involving flammable or combustible liquids and combustible dusts or vapors, controlling ignition sources and methods of reducing or controlling flammable vapors or combustible dusts at or near these operations are emphasized.

Chapter 25 Fruit and Crop Ripening

Chapter 25 provides guidance that is intended to reduce the likelihood of explosions resulting from improper use or handling of ethylene gas used for crop ripening and coloring processes. This is accomplished by regulating ethylene gas generation, storage, and distribution systems and controlling ignition sources. Design and construction of facilities for this use are regulated by the *IBC* to reduce the impact of potential accidents on people and buildings.

Chapter 26 Fumigation and Insecticidal Fogging

Chapter 26 regulates fumigation and insecticidal fogging operations that use toxic pesticide chemicals to kill insects, rodents and other vermin. Fumigants and insecticidal fogging agents pose little hazard if properly applied; however, the inherent toxicity of all these agents and the potential flammability of some makes special precautions necessary when they are used.

Chapter 27 Semiconductor Fabrication Facilities

The requirements of Chapter 27 are intended to control hazards associated with the manufacture of electrical circuit boards or microchips, commonly called semiconductors. Materials commonly associated with semiconductor manufacturing are often quite hazardous and include flammable liquids, pyrophoric and flammable gases, toxic substances, and corrosives. The requirements of this chapter are concerned with both life safety and property protection. However, the fire code official should recognize that the risk of extraordinary property damages is far more common than the risk of personal injuries from fire.

Chapter 28 Lumber Yards and Agro-Industrial, Solid Biomass and Woodworking Facilities

Provisions of Chapter 28 are intended to prevent fires and explosions, facilitate fire control and reduce exposures to and from facilities storing, selling or processing wood and forest products. Also included are solid biomass feedstock and raw products associated with agro-industrial facilities, the outdoor storage of pallets, and manufacturing and recycling facilities. This chapter requires active and passive fire protection features to reduce on- and off-site exposures, limit fire size and development, and facilitate firefighting by employees and the fire service.

Chapter 29 Manufacture of Organic Coatings

Chapter 29 regulates materials and processes associated with the manufacture of paints as well as bituminous, asphaltic and other diverse compounds formulated to protect buildings, machines and objects from the effects of weather, corrosion and hostile environmental exposures. Painting and processes related to the manufacture of nonflammable and noncombustible or water-based products are exempt from the provisions of this chapter. The application of organic coatings is covered by Chapter 24.

Chapter 30 Industrial Ovens

Chapter 30 addresses the fuel supply, ventilation, emergency shutdown equipment, fire protection and the operation and maintenance of industrial ovens, which are sometimes referred to as industrial heat enclosures or industrial furnaces. Compliance with this

vi 2025 OREGON FIRE CODE

chapter is intended to reduce the likelihood of fires involving industrial ovens, which are usually the result of the fuel in use or volatile vapors given off by the materials being heated, or to manage the impact if a fire should occur.

Chapter 31 Tents, Temporary Structures, Special Amusement Areas and Other Membrane Structures

The requirements in Chapter 31 are intended to protect temporary as well as permanent tents and air-supported and other membrane structures and temporary special event structures from fire and similar hazards. Requirements for haunted houses, previously located in *Oregon Fire Code*, Appendix Q, are now relocated in Section 3109 along with other special amusement areas. This chapter also addresses outdoor assembly events, which are not limited to those events where tents or other membrane structures are used but are regulated due to the number of people, density of those people and hazards associated with large outdoor events related to egress, fire hazards from cooking and other related concerns.

Chapter 32 High-Piled Combustible Storage

Chapter 32 provides guidance for reasonable protection of life from hazards associated with the storage of combustible materials in closely packed piles or on pallets, in racks, or on shelves where the top of storage is greater than 12 feet in height. This chapter does not cover miscellaneous combustible materials storage regulated in Section 315.

Chapter 33 Fire Safety during Construction and Demolition

Chapter 33 outlines general fire safety precautions for all structures and all occupancies during construction and demolition operations. Most importantly, this chapter addresses owner responsibility and provides requirements for a site safety plan and requires a site safety director. This chapter is consistent with both Chapter 33 of the IBC and Chapter 15 of the IEBC.

Chapter 34 Tire Rebuilding and Tire Storage

The requirements of Chapter 34 are intended to prevent or control fires and explosions associated with the remanufacture and storage of tires and tire byproducts. Additionally, the requirements are intended to minimize the impact of indoor and outdoor tire storage fires by regulating pile volume and location, segregating the various operations, providing for fire department access and a water supply, and controlling ignition sources.

Chapter 35 Welding and Other Hot Work

Chapter 35 covers requirements for safety in welding and other types of hot work by reducing the potential for fire ignitions that often result in large losses. Several different types of hot work would fall under the requirements found in Chapter 35, including both gas and electric arc methods and any open-torch operations. Many of the activities of this chapter focus on the actions of the occupants.

Chapter 36 Marinas

Chapter 36 addresses the fire protection and prevention requirements for marinas. It was developed in response to the complications encountered by a number of fire departments responsible for the protection of marinas as well as fire loss history in marinas that lacked fire protection. Compliance with this chapter intends to establish safe practices in marina areas, provide an identification method for mooring spaces in the marina, and provide firefighters with safe operational areas and fire protection methods to extend hose lines in a safe manner.

Chapter 37 Combustible Fibers

Chapter 37 establishes the requirements for storage and handling of combustible fibers, including animal, vegetable and synthetic fibers, whether woven into textiles, baled, packaged or loose. Operations involving combustible fibers are typically associated with salvage, paper milling, recycling, cloth manufacturing, carpet and textile mills and agricultural operations, among others. The primary hazard associated with these operations is the abundance of materials and their ready ignitability.

Chapter 38 Higher Education Laboratories

Chapter 38 addresses the unique needs of laboratories in higher education academic institutions for both new and existing buildings and new and existing laboratories. This chapter offers unique solutions for laboratories that allow the necessary quantities of hazardous materials while not requiring a Group H occupancy classification. For laboratories in existing buildings, this chapter also provides more flexibility by allowing the use of certain typically prohibited materials by using inert atmosphere glove boxes or fume hoods, proper separation and an appropriately located fire extinguisher.

Chapter 39 Processing and Extraction Facilities

Chapter 39 focuses on the plant processing, solvent based, and extraction of oils and fats from various plants, and cultivation and related activities. The processes used are not necessarily typical hazardous material processes and often the systems and equipment associated with such processes are not listed. This chapter provides the tools to appropriately enforce the IFC and provide an appropriate level of safety along with maintenance requirements to meet the unique needs of the industry while providing the appropriate level of safety.

2025 OREGON FIRE CODE vii

Chapter 40 Storage of Distilled Spirits and Wines

Chapter 40 provides specific requirements for the storage of distilled spirits and wines, including basic fire prevention requirements, fire protection features, storage configuration and signage. Additionally, in accordance with Section 307.1.1 of the IBC, these occupancies are not classified as a Group H occupancy. Instead, as listed in Sections 311.2 and 311.3 of the IBC, the storage of beverages that contain up to and including 20 percent alcohol are classified as a Group S-2 occupancy, and those that contain over 20 percent alcohol content are classified as a Group S-1 occupancy.

Chapter 41 Temporary Heating and Cooking Operations

Chapter 41 provides all requirements relative to temporary heating and cooking operations in a single chapter. Some of these provisions were originally found in Chapters 3, 6 and 31. This chapter is intended to facilitate consistent enforcement of temporary heating and cooking operations by making the requirements more straightforward. Temporary heating on construction sites is addressed in Chapter 33.

Chapters 42 through 48 Reserved for future use.

Chapter 49 Adult Foster Homes

Chapter 49 contains regulations jointly adopted by the Oregon Department of Human Services (ODHS) and the State Fire Marshal establishing fire safety standards for adult foster homes. The provisions are for inspection purposes in accordance with Oregon Revised Statute (ORS) 476.030(6). ODHS rules contained in Oregon Administrative Rule (OAR) Chapter 411, Divisions 49, 50, 51 and 52 shall be enforced by that agency.

PART V—HAZARDOUS MATERIALS

Chapter 50 Hazardous Materials—General Provisions

Chapter 50 contains the general requirements for all hazardous chemicals in all occupancies. The general provisions of this chapter are intended to be companion provisions with the specific requirements of Chapters 51 through 67 regarding a given classification of hazardous material.

Chapter 51 Aerosols

Chapter 51 addresses the prevention, control and extinguishment of fires and explosions in facilities where retail aerosol products are displayed or stored. Requirements for storing aerosol products are dependent on the level of aerosol product, level of sprinkler protection, type of storage condition and quantity of aerosol products.

Chapter 52 Reserved for future use.

Chapter 53 Compressed Gases

Chapter 53 regulates the storage, use and handling of all flammable and nonflammable compressed gases, such as those that are used in medical facilities, air separation plants, industrial plants, agricultural equipment facilities and in systems such as carbon dioxide beverage dispensing and carbon dioxide enrichment. Where classified as a hazardous material, Chapter 50 would apply along with specific applications such as those used in welding and cutting (Chapter 35), cryogenic liquids (Chapter 55) and liquefied petroleum gases (Chapter 61).

Chapter 54 Corrosive Materials

Chapter 54 addresses materials whose primary hazard is corrosivity; that is, the ability to destroy or irreparably damage living tissue on contact. Although corrosive gases exist, most corrosive materials are solid or liquid and classified as either acids or bases (alkalis). These materials may pose a wide range of hazards other than corrosivity, such as combustibility, reactivity or oxidizing hazards, and must conform to the requirements of this code with respect to all known hazards.

Chapter 55 Cryogenic Fluids

Chapter 55 regulates the hazards associated with the storage, use and handling of cryogenic fluids through regulation of such things as pressure relief mechanisms and proper container storage. These hazards are in addition to the code requirements that address the other hazards of cryogenic fluids, such as flammability and toxicity (Chapters 50, 58 and 60).

Chapter 56 Explosives and Fireworks

Chapter 56 prescribes minimum requirements for the safe manufacture, storage, handling and use of explosives, ammunition and blasting agents for commercial and industrial occupancies. These provisions are intended to protect the general public, emergency responders and individuals who handle explosives. Chapter 56 also regulates the manufacturing, retail sale, display and wholesale distribution of fireworks.

viii 2025 OREGON FIRE CODE

Chapter 57 Flammable and Combustible Liquids

The requirements of Chapter 57 are intended to reduce the likelihood of fires involving the storage, handling, use or transportation of flammable and combustible liquids. The danger associated with flammable and combustible liquids is that the vapors from these liquids, when combined with air in their flammable range, will burn or explode at temperatures near normal living and working environment.

Chapter 58 Flammable Gases and Flammable Cryogenic Fluids

Chapter 58 sets requirements for the storage and use of flammable gases. For safety purposes, there is a limit on the quantities of flammable gas allowed per control area. Exceeding these limitations increases the possibility of damage to both property and individuals. The principal hazard posed by flammable gas is its ready ignitability, or even explosivity, when mixed with air in the proper proportions. Consequently, occupancies storing or handling large quantities of flammable gas are classified as Group H- 2 (high hazard) by the IBC.

Chapter 59 Flammable Solids

Chapter 59 addresses general requirements for storage and handling of flammable solids, especially magnesium; however, it is important to note that several other solid materials, primarily metals, can be explosion hazards under the right conditions. Some of these metals are almost exclusively laboratory materials but because of where they are used, fire service personnel must be trained to handle emergency situations.

Chapter 60 Highly Toxic and Toxic Materials

The main purpose of Chapter 60 is to protect occupants, emergency responders and those in the immediate area of the building and facility from short-term, acute hazards associated with a release or general exposure to toxic and highly toxic materials. This chapter deals with all three states of toxic and highly toxic materials: solids, liquids and gases. This code does not address long-term exposure effects of these materials, which are addressed by agencies such as the Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA).

Chapter 61 Liquefied Petroleum Gases

Chapter 61 establishes requirements for the safe handling, storing and use of LP-gas to reduce the possibility of damage to containers, accidental releases of LP-gas and exposure of flammable concentrations of LP-gas to ignition sources. LP-gas (notably propane) is well known as a camping fuel for cooking, lighting, heating and refrigerating and also remains a popular standby fuel supply for auxiliary generators as well as being widely used as an alternative motor vehicle fuel.

Chapter 62 Organic Peroxides

Chapter 62 addresses the hazards associated with the storage, handling and use of organic peroxides and intends to prevent their uncontrolled release. These chemicals possess the characteristics of flammable or combustible liquids and are also strong oxidizers. The requirements of this chapter pertain to industrial applications in which significant quantities of organic peroxides are stored or used; however, smaller quantities of organic peroxides still pose a significant hazard and, therefore, must be stored and used in accordance with the applicable provisions of this chapter and Chapter 50.

Chapter 63 Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids

Chapter 63 addresses the hazards associated with solid, liquid, gaseous and cryogenic fluid oxidizing materials, including oxygen in home use, and establishes criteria for their safe storage and protection in indoor and outdoor storage facilities, minimizing the potential for uncontrolled releases and contact with fuel sources. Although oxidizers themselves do not burn, they pose unique fire hazards because of their ability to support combustion by breaking down and giving off oxygen.

Chapter 64 Pyrophoric Materials

Chapter 64 regulates the hazards associated with pyrophoric materials, which are capable of spontaneously igniting in the air at or below a temperature of 130°F (54°C). Many pyrophoric materials also pose severe flammability or reactivity hazards. This chapter addresses only the hazards associated with pyrophoric materials. Materials that pose multiple hazards must conform to the requirements of the code with respect to all hazards.

Chapter 65 Pyroxylin (Cellulose Nitrate) Plastics

Chapter 65 addresses the significant hazards associated with pyroxylin (cellulose nitrate) plastics, which are the most dangerous and unstable of all plastic compounds. Strict compliance with the provisions of this chapter, along with proper housekeeping and storage arrangements, helps to reduce the hazards associated with pyroxylin (cellulose nitrate) plastics in a fire or other emergencies.

Chapter 66 Unstable (Reactive) Materials

Chapter 66 addresses the hazards of unstable (reactive) liquid and solid materials as well as unstable (reactive) compressed gases. Materials that pose multiple hazards, such as toxicity, corrosivity, explosivity, flammability or oxidizing potential, must conform to the requirements of the code with respect to all hazards. Strict compliance with the provisions of this chapter, along with proper

2025 OREGON FIRE CODE ix

housekeeping and storage arrangements, help reduce the exposure hazards associated with unstable (reactive) materials in a fire or other emergency.

Chapter 67 Water-Reactive Solids and Liquids

Chapter 67 addresses the hazards associated with water-reactive materials that are solid or liquid at normal temperatures and pressures. In addition to their water reactivity, these materials may pose a wide range of other hazards, such as toxicity, flammability, corrosiveness or oxidizing potential. Strict compliance with the requirements of this chapter, along with proper housekeeping and storage arrangements, helps to reduce the exposure hazards associated with water-reactive materials in a fire or other emergency.

Chapters 68 through 79 Reserved for future use.

PART VI—REFERENCED STANDARDS

Chapter 80 Referenced Standards

Chapter 80 lists all of the product and installation standards and codes that are referenced throughout Chapters 1 through 67 and includes identification of the promulgators and the section numbers in which the standards and codes are referenced. As stated in Section 102.7, these standards and codes become an enforceable part of the code (to the prescribed extent of the reference) as if printed in the body of the code.

PART VII—APPENDICES

Appendix A Board of Appeals

Appendix A contains the provisions for appeal and the establishment of a board of appeals. The provisions include the application for an appeal, the makeup of the board of appeals and the conduct of the appeal process.

Appendix B Fire-Flow Requirements for Buildings

Appendix B provides a tool for the use of jurisdictions in establishing a policy for determining fire-flow requirements in accordance with Section 507.3. The primary tool used in this appendix is a table that presents fire flow based on construction type and building area based on the correlation of the Insurance Services Office (ISO) method and the construction types used in the *IBC*.

Appendix C Fire Hydrant Locations and Distribution

Appendix C focuses on the location and spacing of fire hydrants, which is important to the success of firefighting operations. This particular appendix gives one methodology based on the required fire flow that fire departments can work with to set a policy for hydrant distribution around new buildings and facilities in conjunction with Section 507.5.

Appendix D Fire Apparatus Access Roads

Appendix D contains more detailed elements for use with the basic access requirements found in Section 503. This appendix, like Appendices B and C, is a tool for jurisdictions looking for guidance in establishing access requirements and includes criteria for multiple-family residential developments, large one- and two-family subdivisions, specific examples for various types of turnarounds for fire department apparatus and parking regulatory signage.

Appendix E Hazard Categories

Appendix E contains guidance in the classifying of hazardous materials so that proposed designs can be evaluated intelligently and accurately. The descriptive materials and explanations of hazardous materials and how to report and evaluate them on a Safety Data Sheet (SDS) are intended to be instructional as well as informative.

Appendix F Hazard Ranking

The information in Appendix F is intended to be a companion to the specific requirements of Chapters 51 through 67, which regulate the storage, handling and use of all hazardous materials classified as either physical or health hazards. This appendix lists the various hazardous materials categories that are defined in this code, along with the NFPA 704 hazard ranking for each.

Appendix G Cryogenic Fluids—Weight and Volume Equivalents

Appendix G gives the fire code official and design professional a ready reference tool for the conversion of the liquid weight and volume of cryogenic fluid to their corresponding volume of gas and vice versa and is a companion to the provisions of Chapter 55 of this code. Note that this appendix is for information purposes and is not intended for adoption.

x 2025 OREGON FIRE CODE

Appendix H Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) Instructions

Appendix H is intended to assist businesses in establishing a Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) based on the classification and quantities of materials that would be found on-site, in storage or in use. The sample forms and available Safety Data Sheets (SDS) provide the basis for the evaluations. It is also a companion to IFC Sections 407.5 and 407.6, which provide the requirement that the HMIS and HMMP be submitted when required by the fire code official.

Appendix I Fire Protection Systems—Noncompliant Conditions

The purpose of Appendix I, which was developed by the ICC Hazard Abatement in Existing Buildings Committee, is to provide the fire code official with a list of conditions that are readily identifiable by the inspector during the course of an inspection utilizing the IFC. The specific conditions identified in this appendix are primarily derived from applicable NFPA standards and pose a hazard to the proper operation of the respective systems.

Appendix J Building Information Sign

Appendix J provides design, installation and maintenance requirements for a Building Information Sign (BIS), a fire service tool to be utilized in the crucial, initial response of firefighters to a structure fire. The BIS placard, which is in the shape of a fire service Maltese Cross, is designed to be utilized within the initial response time frame of an incident to assist firefighters in their tactical assessment of the construction type and hourly rating, fire protection systems, occupancy type, content hazards and special features that could affect tactical decisions and operations.

Appendix K Construction Requirements for Existing Ambulatory Care Facilities

Appendix K was created by the ICC Ad Hoc Committee on Healthcare (AHC) and is intended to provide jurisdictions with an option for assessing minimum fire and life safety requirements for buildings containing ambulatory care facilities. These requirements are presented as an appendix so that the adopting authority can exercise judgment in the adoption and application of this section since the ambulatory care facility requirements are fairly new to the codes. The technical requirements are based on the IBC language, which is consistent with the overall concept of the current federal requirements.

Appendix L Requirements for Firefighter Air Replenishment Systems

Appendix L provides for the design, installation and maintenance of permanently installed firefighter breathing air systems in buildings designated by the jurisdiction. The system has been called a "standpipe for air" and consists of stainless steel, high-pressure piping that is supplied by on-site air storage or fire department air supply units. Air-filling stations are then located throughout the building, allowing firefighters to refill breathing air cylinders inside the fire building.

Appendix M High-Rise Buildings—Retroactive Automatic Sprinkler Requirement

Appendix M was created with the intent to provide an option for adoption by jurisdictions that choose to require existing high-rise buildings to be retrofitted with automatic sprinklers.

Appendix N Indoor Trade Shows and Exhibitions

Appendix N was created to address the hazards associated with larger, more complex trade shows and exhibitions. Although many of these requirements are already included in various locations in this code, some of the more important items, such as requirements for covered booths and multiple-story booths, are not. The intent is to have the requirements covering these events in a single location. This assists those organizing exhibitions and individual exhibitors unfamiliar with the fire code.

Appendix O Valet Trash and Recycling Collection in Group R-2 Occupancies

Appendix O provides requirements to facilitate the enforcement of safety requirements for valet trash and recycling collection services in Group R-2 occupancies. These collection services are formally defined in Section 202 as "Valet Trash Collection," which includes recycling. Occupants receiving this service place trash and recyclables in the corridor outside of their residence for pickup by a collection service on a regularly scheduled basis in accordance with restrictions, as prescribed by this appendix.

2025 OREGON FIRE CODE xi

RELOCATION OF TEXT OR TABLES

The following table indicates relocation of sections and tables in the 2024 edition of the IFC from the 2021 edition.

RELOCATIONS				
2024 LOCATION 2021 LOCATION				
104.2.2	104.8.2			
104.2.3	104.10			
104.2.3.5	104.10.2			
104.2.3.6	104.10.1			
104.2.4	104.9			
105.5.31	105.5.27			
203	202 OCCUPANCY CLASSIFICATION			
903.3.9	903.4.3			
914.1.1.3	914.3.1.1.1			
SECTION 3303 ADMINISTRATIVE SAFETY CONTROLS	SECTION 3303 OWNER'S RESPONSIBILITY FOR FIRE PROTECTION			
3303.2.1	3303.6			
3303.5	3305.5			
3303.5.1	3305.5.1			
3303.5.2	3305.5.2			
3303.5.2.1	3305.5.2.1			
3303.5.2.2	3305.5.2.2			
3303.5.2.3	3305.5.2.3			
3303.5.3	3305.5.3			
3303.5.4	3305.5.4			
3303.6	3310.1			
SECTION 3304 PROTECTION OF COMBUSTIBLE MATERIALS	SECTION 3304 TEMPORARY HEATING EQUIPMENT			
3304.1	3305.2			
3304.1.1	3305.2.1			
3304.1.2	3305.2.2			
3304.1.3	3305.2.3			
3304.2	3305.2.4			
SECTION 3305 IGNITION SOURCE CONTROLS	SECTION 3305 PRECAUTIONS AGAINST FIRE			
3305.1	3304.1			
3305.1.1	3304.2			
3305.1.2	3304.3			
3305.1.3	3304.4			
3305.1.4	3304.5			
3305.1.5	3304.6			
3305.2	3305.1			
3305.5	3305.6			
3305.6	3305.7			
3305.7	3305.8			
3305.8	3309.1			
3305.9	3303.8			
3305.10	3318.1			
3305.10.1	3318.2			
3305.10.2	3318.3			

xii 2025 OREGON FIRE CODE

RELOCATIONS—continued		
2024 LOCATION	2021 LOCATION	
SECTION 3306 FIRE PROTECTION SYSTEMS AND DEVICES	SECTION 3306 FLAMMABLE AND COMBUSTIBLE LIQUIDS	
3306.1	3303.7	
3306.2	3303.9	
3306.3	3303.9.1	
3306.4	3303.10	
3306.5	3315.1	
3306.5.1	3315.2	
3306.6	3316.1	
SECTION 3307 FIRE DEPARTMENT SITE ACCESS AND WATER SUPPLY	SECTION 3307 FLAMMABLE GAS	
3307.1	3311.1	
3307.1.1	3311.2	
3307.1.2	3312.1	
3307.1.3	3312.2	
3307.2	3313.1	
3307.2.1	3313.2	
3307.2.2	3313.3	
3307.2.2.1	3313.3.1	
3307.2.2.2	3313.3.2	
3307.2.2.3	3313.3.3	
3307.3	3313.4	
3307.4	3313.5	
3307.5	3314.1	
3307.5.1	3314.2	
3307.5.2	3314.3	
SECTION 3008 MOTORIZED CONSTRUCTION EQUIPMENT	SECTION 3308 EXPLOSIVE MATERIALS	
3308.1	3317.1	
SECTION 3309 HAZARDOUS MATERIALS	SECTION 3309 PORTABLE GENERATORS	
3309.1	3306.1	
3309.1.1	3306.2	
3309.1.2	3306.3	
3309.1.3	3306.4	
3309.1.4	3306.5	
3309.1.5	3306.6	
3309.2	307.1	
3309.2.1	3307.2	
3309.2.2	3307.2.1	
3309.3	3308.1	
3309.3.1	3308.2	
3309.3.2	3308.3	
SECTION 3310 ADDITIONAL SAFEGUARDS FOR OCCUPIED BUILDINGS	SECTION 3310 FIRE REPORTING	
3310.1	3312.3	
SECTION 3311 ADDITIONAL SAFEGUARDS FOR TYPES I AND II CONSTRUCTION	SECTION 3311 ACCESS FOR FIRE FIGHTING	
3311.1	3305.9	
SECTION 3312 ADDITIONAL SAFEGUARDS FOR TYPE IV CONSTRUCTION	SECTION 3312 MEANS OF EGRESS	
3312.1	3303.5	

2025 OREGON FIRE CODE xiii

RELOCATIONS—continued			
2024 LOCATION	2021 LOCATION		
4101.5	3107.12.7		
4101.6	3107.13		
4102.1	603.9		
4103.1	605.5		
4104.2	308.1.4		
4104.4	3107.12.6		
4104.5	3107.12.5		
4104.6	3107.12.4		
4106	319		

MARGINAL MARKINGS

- = Indicates where an entire section, paragraph, exception or table has been deleted or an item in a list of items or a table has been deleted from the 2021 edition of the International Code.
- = Indicates a technical change from the requirements of the 2021 edition of the International Code.
- * = Indicates that text or a table has been relocated within the code
- ** = Indicates that the text or table immediately following it has been relocated there from elsewhere in the code.
- > = Indicates International model code language deleted by Oregon.
- | | = Indicates a State of Oregon amendment has been made to the International Code.

ITALICIZED TERMS

Words and terms defined in Chapter 2, Definitions, are italicized where they appear in code text and the Chapter 2 definitions apply. Where such words and terms are not italicized, common-use definitions apply. The words and terms selected have code-specific definitions that the user should read carefully to facilitate better understanding of the code.

xiv 2025 OREGON FIRE CODE

CONTENTS

CHAPTE	ER 1 SCOPE AND ADMINISTRATION1	322	Powered Micromobility Devices84			
Part 1—	General Provisions	CHART	ED 4 EMERCENCY DI ANNING AND			
101 Scope and General Requirements 1		CHAPTER 4 EMERGENCY PLANNING AND PREPAREDNESS				
102	Applicability2	401	General			
Part 2—	Administration and Enforcement	402	Definitions			
103	Code Compliance Agency	403	Emergency Preparedness Requirements88			
103	Duties and Powers of the Fire Code Official	404	Fire Safety, Evacuation and Lockdown Plans			
104	Permits	405	Emergency Evacuation Drills96			
105	Construction Documents	406	Employee Training and Response Procedures			
106	Temporary Structures, Uses, Equipment	407	Hazard Communication98			
107	and Systems	401	riazaru communication			
108	Fees	CHAPT	ER 5 FIRE SERVICE FEATURES99			
109	Inspections	501	General99			
110	Maintenance	502	Definitions99			
111	Service Utilities	503	Fire Apparatus Access Roads100			
112	Means of Appeals	504	Access to Building Openings and Roofs			
113	Violations	505	Premises Identification101			
	Stop Work Order	506	Key Boxes			
114		507	Fire Protection Water Supplies102			
115	Unsafe Structures or Equipment	508	Fire Command Center			
СНАРТЕ	ER 2 DEFINITIONS	509	Fire Protection and Utility Equipment			
201	General	303	Identification and Access104			
202	General Definitions	510	Emergency Responder Communications			
203	Occupancy Classification and Use 57		Enhancement Systems104			
СНАРТІ	ER 3 GENERAL REQUIREMENTS71	CHAPT	ER 6 BUILDING SERVICES AND SYSTEMS 109			
301	General	601	General109			
302	Definitions	602	Definitions			
303	Asphalt Kettles	603	Electrical Equipment, Wiring and Hazards109			
304	Combustible Waste Material	604	Elevator Operation, Maintenance and Fire			
305	Ignition Sources		Service Keys111			
306	Motion Picture Projection Rooms and Motion Picture	605	Fuel-Fired Appliances112			
300	and Television Production Studio Soundstages and	606	Commercial Cooking Equipment and Systems 114			
	Approved Protection Facilities and Film	607	Commercial Cooking Oil Storage115			
307	Open Burning, Recreational Fires and Portable	608	Mechanical Refrigeration116			
	Outdoor Fireplaces	609	Hyperbaric Facilities118			
308	Open Flames	610	Clothes Dryer Exhaust Systems			
309	Powered Industrial Trucks and Equipment 76		,			
310	Smoking		ER 7 FIRE AND SMOKE PROTECTION			
311	Vacant Premises	FEAT	TURES 119			
312	Vehicle Impact Protection	701	General119			
313	Fueled Equipment	702	Definitions			
314	Indoor Displays	703	Penetrations120			
315	General Storage	704	Joints and Voids120			
316	Hazards to Firefighters 81	705	Door and Window Openings			
317	Vegetative and Landscaped Roofs 81	706	Duct and Air Transfer Openings			
318	Laundry Carts82	707	Concealed Spaces			
319	Additive Manufacturing (3D Printing)	708	Spray Fire-Resistant Materials and Intumescent			
320	Lithium-Ion and Lithium Metal Battery Storage 83		Fire-Resistant Materials121			
321	Artificial Combustible Vegetation					
	5					

2025 OREGON FIRE CODE XV

	R 8 INTERIOR FINISH, DECORATIVE	1014	Handrails
MATE	ERIALS AND FURNISHINGS123	1015	Guards220
801	General	1016	Exit Access
802	Definitions	1017	Exit Access Travel Distance
803	Interior Wall and Ceiling Finish in Existing	1018	Aisles
	Buildings	1019	Exit Access Stairways and Ramps225
804	Interior Wall and Ceiling Trim and Interior Floor	1020	Corridors
	Finish in New and Existing Buildings125	1021	Egress Balconies227
805	Upholstered Furniture and Mattresses in New	1022	Exits
	and Existing Buildings	1023	Interior Exit Stairways and Ramps227
806	Natural Decorative Vegetation in New and Existing Buildings	1024	Exit Passageways230
807	Decorative Materials and Artificial Decorative	1025	Luminous Egress Path Markings231
807	Vegetation in New and Existing Buildings 129	1026	Horizontal Exits232
808	Furnishings Other than Upholstered Furniture	1027	Exterior Exit Stairways and Ramps233
000	and Mattresses or Decorative Materials in	1028	Exit Discharge
	New and Existing Buildings131	1029	Egress Courts235
809	Acoustical Ceiling Systems	1030	Assembly235
		1031	Emergency Escape and Rescue242
	R 9 FIRE PROTECTION AND LIFE SAFETY	1032	Maintenance of the Means of Egress
	EMS		
901	General		R 11 FIRE AND LIFE SAFETY REQUIREMENTS FOR
902	Definitions		DINGS CONSTRUCTED PRIOR TO A STATE BUILDING
903	Automatic Sprinkler Systems		247
904	Alternative Automatic Fire-Extinguishing Systems 147	1101	
905	Standpipe Systems	1102	Definitions
906	Portable Fire Extinguishers	1103	Fire Safety Requirements for Existing Buildings248
907	Fire Alarm and Detection Systems	1104	Means of Egress for Existing Buildings254
908	Emergency Alarm Systems	1105	Fire and Life Safety Requirements for
909	Smoke Control Systems	1100	Existing Group I-2
910	Smoke and Heat Removal	1106	Requirements for Outdoor Operations264
911	Explosion Control	1107	Energy Storage Systems264
912	Fire Department Connections	CHAPTE	R 12 ENERGY SYSTEMS
913	Fire Pumps		General
914	Fire Protection Based on Special Detailed		Definitions
015	Requirements of Use and Occupancy182	1203	Emergency and Standby Power Systems265
915	Carbon Monoxide (CO) Detection	1204	Portable Generators
916	Mass Notification Systems	1205	Solar Photovoltaic Power Systems
917	Mass Notification Systems	1206	Stationary Fuel Cell Power Systems
CHAPTE	R 10 MEANS OF EGRESS	1207	Electrical Energy Storage Systems (ESS)272
1001	Administration189	1208	Electrical Room Signage288
1002	Definitions		
1003	General Means of Egress	CHAPTEI	R 13—18 RESERVED 289
1004	Occupant Load		
1005	Means of Egress Sizing	CHAPTE	R 19 FIRE WATCH 291
1006	Numbers of Exits and Exit Access Doorways195	1901	General291
1007	Exit and Exit Access Doorway Configuration 198		
1008	Means of Egress Illumination	CHAPTE	
1009	Accessible Means of Egress	2001	General295
1010	Doors, Gates and Turnstiles	2002	Definitions
1011	Stairways	2003	General Precautions
1012	Ramps	2004	Aircraft Maintenance
1013		2005	Portable Fire Extinguishers296

xvi 2025 OREGON FIRE CODE

2006	Aircraft Fueling	CHAPTE	R 25	FRUIT AND CROP RIPENING	343
2007	Helistops and Heliports301	2501	Gei	neral	343
2008	Tank Vehicle to Tank Vehicle Fuel	2502	Def	initions	343
	Transfer at Airports301	2503	Eth	ylene Gas	343
		2504		rces of Ignition	
CHAPTE	R 21 DRY CLEANING303	2505		mbustible Waste	
2101	General	2506		ylene Generators	
2102	Definitions	2507		rning Signs	
2103	Classifications	2001	***		
2104	General Requirements303	CHAPTE	R 26	FUMIGATION AND INSECTICIDAL	
2105	Operating Requirements	FOGG	ING		345
2106	Spotting and Pretreating	2601	Gei	neral	345
2107	Dry Cleaning Systems	2602	Def	initions	345
2108	Fire Protection	2603	Fire	e Safety Requirements	345
	R 22 COMBUSTIBLE DUST-PRODUCING			SEMICONDUCTOR FABRICATION	
OPER	ATIONS307	FACIL		S	
2201	General	2701		neral	
2202	Definitions	2702		initions	
2203	Dust Explosion Prevention	2703	Gei	neral Safety Provisions	347
2204	Dust Explosion Screening Tests	2704	Sto	rage	352
2205	Standards310	2705	Use	e and Handling	353
	R 23 MOTOR FUEL-DISPENSING FACILITIES			LUMBER YARDS AND AGRO-INDUSTRIAL,	
AND F	REPAIR GARAGES313	SOLID		MASS AND WOODWORKING FACILITIES	
2301	General	2801		neral	
2302	Definitions	2802		initions	
2303	Location of Dispensing Devices	2803		neral Requirements	
2304	Dispensing Operations	2804		Protection	
2305	Operational Requirements	2805	-	wood, Veneer and Composite Board Mills	
2306	Flammable and Combustible Liquid Motor	2806		g Storage Areas	358
	Fuel-Dispensing Facilities	2807		rage of Wood Chips and Hogged Materials	
2307	Liquefied Petroleum Gas Motor Fuel-Dispensing			ssociated with Timber and Lumber	250
	Facilities			roduction Facilities	358
2308	Compressed Natural Gas Motor Fuel-Dispensing Facilities	2808		rage and Processing of Wood Chips, Hogged laterials, Fines, Compost, Solid Biomass	
2200				eedstock and Raw Product Associated with	
2309	Hydrogen Motor Fuel-Dispensing and Generation Facilities			ard Waste, Agro-Industrial and Recycling	
2310	Marine Motor Fuel-Dispensing Facilities			acilities	359
2311	Repair Garages	2809	Ext	erior Storage of Finished Lumber and	
2311	Repuir Gurages			olid Biofuel Products	359
CHAPTE	R 24 FLAMMABLE FINISHES	2810		tdoor Storage of Pallets at Pallet	200
2401	General		IV	Ianufacturing and Recycling Facilities	360
2402	Definitions	СНАРТЕІ	R 29	MANUFACTURE OF ORGANIC COATINGS.	361
2403	Protection of Operations	2901		neral	
2404	Spray Finishing	2901		inition	
2405	Dipping Operations	2902		neral Precautions	
2406	Powder Coating	2903		ctrical Equipment and Protection	
2407	Electrostatic Apparatus339			ocess Structures	
2408	Organic Peroxides And Dual-Component	2905		cess Structures	
	Coatings	2906			
2409	Indoor Manufacturing of Reinforced Plastics 340	2907	PIC	cess Piping	302
2410	Floor Surfacing and Finishing Operations 341				

2025 OREGON FIRE CODE xvii

CONTENTS

2908	Raw Materials in Process Areas	3313	Combustible Trash Chutes	398
2909	Raw Materials and Finished Products363	CHARTE	R 34 TIRE REBUILDING AND TIRE STORAGE	200
CHAPTE	R 30 INDUSTRIAL OVENS	3401	General	
3001	General	3402	Definitions	
3002	Definitions	3403	Tire Rebuilding	
3003	Location	3404	Precautions against Fire	
3004	Fuel Piping	3405	Outdoor Storage	
3005	Interlocks	3406	Fire Department Access	
3006	Fire Protection	3407	Fencing	
3007	Operation and Maintenance	3408	Fire Protection	
3001	operation and maintenance	3409	Indoor Storage Arrangement	
СНАРТЕ	R 31 TENTS, TEMPORARY SPECIAL EVENT	3103	maoor storage / wrangement	от
	CTURES, SPECIAL AMUSEMENT AREAS AND OTHER	CHAPTE	R 35 WELDING AND OTHER HOT WORK	. 403
MEME	BRANE STRUCTURES	3501	General	403
3101	General367	3502	Definitions	403
3102	Definitions	3503	General Requirements	403
3103	Temporary Tents and Membrane Structures 367	3504	Fire Safety Requirements	404
3104	Temporary and Permanent Tents and	3505	Gas Welding and Cutting	
	Membrane Structures370	3506	Electric Arc Hot Work	405
3105	Temporary Special Event Structures	3507	Calcium Carbide Systems	405
3106	Inflatable Amusement Devices	3508	Acetylene Generators	405
3107	Outdoor Assembly Events	3509	Piping Manifolds and Hose Systems for	
3108	Operational Requirements		Fuel Gases and Oxygen	406
3109	Special Amusement Areas374	3510	Hot Work on Flammable and Combustible	
CHADTE	R 32 HIGH-PILED COMBUSTIBLE STORAGE 375		Liquid Storage Tanks	406
3201	General	CHARTE	R 36 MARINAS	407
3202	Definitions			
3202	Commodity Classification	3601 3602	Scope Definitions	
3204	Designation of High-Piled Storage Areas385		General Precautions	
3205	Housekeeping and Maintenance	3603 3604	Fire Protection Equipment	
3206	General Fire Protection and Life Safety Features 386		·	
3207	Solid-Piled and Shelf Storage	3605	Marine Motor Fuel-Dispensing Facilities	400
3208	Rack Storage	CHAPTE	R 37 COMBUSTIBLE FIBERS	. 409
3209	Automated Storage	3701	General	
3210	Specialty Storage	3702	Definitions	
3210	Specially Storage	3703	General Precautions	
СНАРТЕ	R 33 FIRE SAFETY DURING CONSTRUCTION	3704	Loose Fiber Storage	
AND I	DEMOLITION	3705	Baled Storage	
3301	General			
3302	Definitions	CHAPTE	R 38 HIGHER EDUCATION LABORATORIES	. 411
3303	Administrative Safety Controls393	3801	General	411
3304	Protection of Combustible Materials 394	3802	Definitions	411
3305	Ignition Source Controls	3803	General Safety Provisions	411
3306	Fire Protection Systems and Devices	3804	Laboratory Suite Construction	412
3307	Fire Department Site Access and Water Supply 396	3805	Nonsprinklered Laboratories	413
3308	Motorized Construction Equipment	3806	Existing Sprinklered Laboratories	414
3309	Hazardous Materials397			
3310	Additional Safeguards for Occupied Buildings 397		R 39 PROCESSING AND EXTRACTION	
3311	Additional Safeguards for Types I and II		ITIES	
	Construction398		General	
3312	Additional Safeguards for Type IV Construction 398	3902	Definitions	
		3903	Processing and Extraction	415

xviii 2025 OREGON FIRE CODE

3904	Systems and Equipment416	5107	Ма	nufacturing Facilities	473
3905	Safety Systems	CHARTE	D = 0	DECEDI/ED	4
3906	Maintenance	CHAPTE	K 52	RESERVED	4/5
СНАРТЕ	R 40 STORAGE OF DISTILLED SPIRITS	CHAPTE	R 53	COMPRESSED GASES	477
	WINES419	5301	Gei	neral	477
4001	General	5302	Def	initions	477
4002	Definitions	5303	Gei	neral Requirements	477
4003	Precautions against Fire 419	5304	Sto	rage of Compressed Gases	481
4004	Storage	5305	Use	e and Handling of Compressed Gases	481
4005	Fire Protection	5306	Ме	dical Gases	482
4006	Signage	5307	Coi	mpressed Gases Not Otherwise Regulated	482
СНАРТЕ	R 41 TEMPORARY HEATING AND COOKING	CHAPTE	R 54	CORROSIVE MATERIALS	485
OPER	ATIONS427	5401	Gei	neral	485
4101	General	5402	Def	inition	485
4102	Portable Electric Heating Appliances428	5403	Gei	neral Requirements	485
4103	Portable Fuel-Fired Heating Appliances 428	5404	Sto	rage	485
4104	Portable Fuel-Fired Cooking Appliances 429	5405	Use	2	485
4105	Portable Electric Cooking Appliances 429				
4106	Mobile Food Units430	CHAPTE		CRYOGENIC FLUIDS	
		5501	Gei	neral	487
CHAPTE	R 42—48 RESERVED435	5502	Def	initions	487
		5503	Gei	neral Requirements	487
CHAPTE	R 49 ADULT FOSTER HOMES	5504	Sto	rage	489
4901	General	5505	Use	and Handling	491
4902	Definitions				
4903	Construction			EXPLOSIVES AND FIREWORKS	
4904	Exits and Emergency Procedures 437	5601		neral	
4905	Exits and Emergency Egress	5602		initions	
4906	Flame Spread and Smoke Density 438	5603		cordkeeping and Reporting	
4907	Automatic Sprinkler System 438	5604		plosive Materials Storage and Handling	498
4908	Smoke Alarms	5605		nufacture, Assembly and Testing of	
4909	Carbon Monoxide Alarms			xplosives, Explosive Materials and Fireworks.	504
4910	Portable Fire Extinguishers 440	5606		all Arms Ammunition and Small Arms mmunition Components	507
4911	Heating Equipment440	5607		sting	
4912	Electrical Equipment	5608		3	
4913	Special Hazards	5609		eworks Display Storage of Consume	
CHARTE	R 50 HAZARDOUS MATERIALS—GENERAL	3609		ail Sales and Temporary Storage of Consume ireworks	
	VISIONS441		•		
	General	CHAPTE	R 57	FLAMMABLE AND COMBUSTIBLE	
5002	Definitions	LIQUI	DS.	•••••	513
5003	General Requirements	5701	Gei	neral	513
5004	Storage	5702	Def	initions	514
5005	Use, Dispensing and Handling	5703	Gei	neral Requirements	514
5505	ose, properioring and manating.	5704	Sto	rage	518
CHAPTE	R 51 AEROSOLS467	5705	Dis	pensing, Use, Mixing and Handling	541
5101	General	5706	Spe	ecial Operations	547
5102	Definitions	5707	On-	-Demand Mobile Fueling Operations	556
5103	Classification of Aerosol Products		_		
5104	Inside Storage of Aerosol Products			FLAMMABLE GASES AND FLAMMABLE	
5105	Outside Storage			IC FLUIDS	
5106	Retail Display471	2801	Gei	neral	555

2025 OREGON FIRE CODE xix

CONTENTS

5802	Definitions559	6306	Liqu	ıid Oxygen in Home Health Care	590
5803	General Requirements559				
5804	Storage560			PYROPHORIC MATERIALS	
5805	Use560	6401		eral	
5806	Flammable Cryogenic Fluids560	6402		nition	
5807	Metal Hydride Storage Systems561	6403		eral Requirements	
5808	Hydrogen Fuel Gas Rooms563	6404		age	
5809	On-Demand Hydrogen Mobile Fueling	6405	Use		594
	Operations	CHARTE	D C E	PYROXYLIN (CELLULOSE NITRATE)	
	D = 0 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1			PTROXILIN (CELLULUSE NITRATE)	595
	R 59 FLAMMABLE SOLIDS	6501		eral	
5901	General	6502		nitions	
5902	Definitions	6503		eral Requirements	
5903	General Requirements565	6504		rage and Handling	
5904	Storage	0504	3(0)	age and Handling	555
5905	Use	CHAPTE	R 66	UNSTABLE (REACTIVE) MATERIALS	. 597
5906	Magnesium565	6601	Gen	eral	597
CHADTE	R 60 HIGHLY TOXIC AND TOXIC MATERIALS 569	6602	Defi	nition	597
6001	General	6603	Gen	eral Requirements	597
6001	Definitions	6604		rage	
6002	Highly Toxic and Toxic Solids and Liquids 569	6605			
6003	Highly Toxic and Toxic Compressed Gases 570				
6005	Ozone-Gas Generators	CHAPTE	R 67	WATER-REACTIVE SOLIDS AND LIQUIDS	. 599
0003	Ozone-das denerators	6701	Gen	eral	599
CHAPTE	R 61 LIQUEFIED PETROLEUM GASES 577	6702	Defi	nition	599
6101	General	6703	Gen	eral Requirements	599
6102	Definitions	6704	Sto	rage	599
6103	Installation of Equipment	6705	Use		600
6104	Location of LP-Gas Containers578				
6105	Prohibited Use of LP-Gas579	CHAPTE	RS 68	-79 RESERVED	. 601
6106	Dispensing and Overfilling579	СНАРТЕ	R 80	REFERENCED STANDARDS	603
6107	Safety Precautions and Devices580	CHAITE	K 00	REFERENCED STANDARDS	. 005
6108	Fire Protection	APPEND	IX A	BOARD OF APPEALS	. 619
6109	Storage of Portable LP-Gas Containers			eral	
	Awaiting Use or Resale580		•		
6110	LP-Gas Containers Not in Service582	APPEND	IX B	FIRE-FLOW REQUIREMENTS FOR	
6111	Parking and Garaging of LP-Gas Tank Vehicles 582			5	. 621
		B101	Gen	eral	621
CHAPTE	R 62 ORGANIC PEROXIDES583	B102	Def	initions	621
6201	General583	B103	Mod	difications	621
6202	Definition	B104	Fire	-Flow Calculation Area	622
6203	General Requirements583	B105	Fire	-Flow Requirements for Buildings	
6204	Storage			Protected Areas with Adequate and	
6205	Use			eliable Water Systems	622
CIIADTE:	D CO OVIDIZEDE OVIDIZINO CACECANO	B106		iting Fire-Flow Requirements for Buildings	
	R 63 OXIDIZERS, OXIDIZING GASES AND IZING CRYOGENIC FLUIDS587			Protected Areas with Adequate and Reliable	C2.4
6301	General587	D107		ater Systems	७∠4
6302	Definitions	B107		-Flow Requirements for Buildings in rotected Areas without Adequate and	
6302	General Requirements			eliable Water Systems	624
6304	Storage	B108		-Flow Requirements for Buildings	
6305	Use			Unprotected Areas	624
0303	036	B109		erenced Standards	

XX 2025 OREGON FIRE CODE

	IX C FIRE HYDRANT LOCATIONS AND RIBUTION627		IX K CONSTRUCTION REQUIREMENTS FOR ING AMBULATORY CARE FACILITIES 67:
C101		K101	General
C102	Number of Fire Hydrants 627	K102	Fire Safety Requirements for Existing
C103	Fire Hydrant Spacing		Ambulatory Care Facilities67
C104	Consideration of Existing Fire Hydrants 628	K103	Incidental Uses in Existing Ambulatory
C105	Referenced Standard		Care Facilities673
		K104	Means of Egress Requirements for Existing Ambulatory Care Facilities673
	IX D FIRE APPARATUS ACCESS ROADS629	K105	Referenced Standards
D101	General		
D102	Required Access	APPEND	IX L REQUIREMENTS FOR FIREFIGHTER
D103	Minimum Specifications		EPLENISHMENT SYSTEMS67
D104	Commercial and Industrial Developments 630	L101	General675
D105	Aerial Fire Apparatus Access Roads	L102	Definitions675
D106	Multiple-Family Residential Developments 631	L103	Permits675
D107	One- or Two-Family Residential Developments 631	L104	Design and Installation675
D108	Uniform Alternate Construction Standard (UACS) for	L105	Acceptance Tests67
D100	One- or Two-Family Dwellings	L106	Inspection, Testing and Maintenance67
D109	Referenced Standards	L107	Referenced Standards
ADDEND	IX E HAZARD CATEGORIES		
E101		APPEND	IX M HIGH-RISE BUILDINGS—RETROACTIVE
		AUTO	MATIC SPRINKLER REQUIREMENT 679
E102		M101	Scope679
E103	Evaluation of Hazards	M102	Where Required679
E104 E105	GHS Hazardous Materials Definitions	M103	Compliance
APPEND F101 F102			IX N INDOOR TRADE SHOWS AND BITIONS 68: General 68: Definitions 68:
		N102	Public Safety for Events
APPEND	IX G CRYOGENIC FLUIDS—WEIGHT AND	N103	Interior Finish and Decorative Materials
VOLU	ME EQUIVALENTS653	N104 N105	Multiple-Level Booths
G101	General653	N105	Covered Booths
	IX H HAZARDOUS MATERIALS MANAGEMENT (HMMP) AND HAZARDOUS MATERIALS INVENTORY		Display and Storage of Hazardous and Combustible Materials
STAT	EMENT (HMIS) INSTRUCTIONS 655	N108	Means of Egress
H101	HMMP 655	N109	Referenced Standards68
H102	HMIS658		
H103	Emergency Plan 660		IX O VALET TRASH AND RECYCLING
H104	Security		ECTION IN GROUP R-2 OCCUPANCIES
H105	Referenced Standards 661	0101	•
		0102	Containers
APPEND	IX I FIRE PROTECTION SYSTEMS—	0103	Container Location
NON	COMPLIANT CONDITIONS663	0104	Additional Requirements685
1101	Noncompliant Conditions	0105	Referenced Standards680
1102	Referenced Standards		
		INDEX .	68
APPEND	IX J BUILDING INFORMATION SIGN		
	General 667		
J102	Referenced Standards		

2025 OREGON FIRE CODE xxi