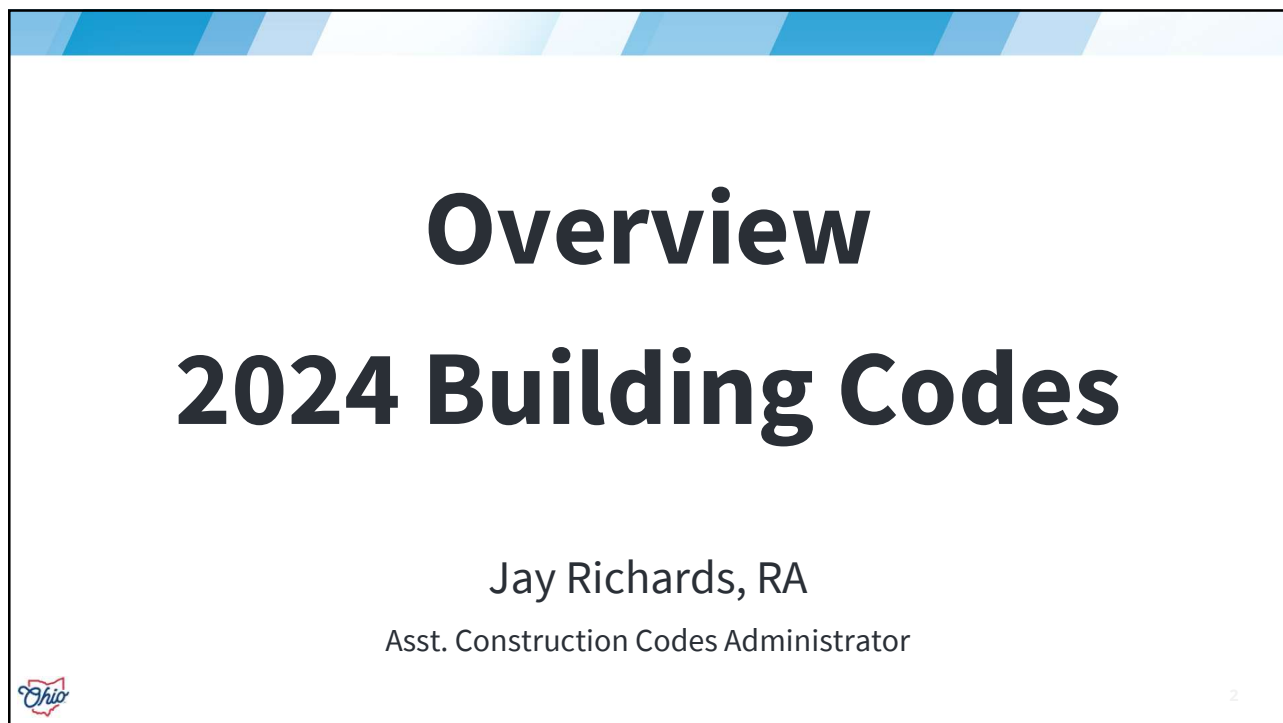




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2024 BUILDING CODES – EFFECTIVE MARCH 1, 2024

- **New adoption format**

Adoption by reference – 2021 ICC model codes **IBC, IMC, IPC, IFGC, IECC** and **IEBC**

Rules of construction

Reduce duplication and Regulatory Restrictions

- **New rules**

Certifications – OAC 4101:7

Industrialized Units – OAC 4101:10

- **Statutory changes**

Mobile computing data centers – RC 3781.06(B)(3)

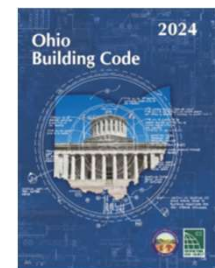
Storm shelters for Group E schools – RC 3781.1010



3

2024 OHIO BUILDING CODE

- Chapter 1 - Administration
 - Fire code – References IFC and enforcement
- Chapter 2 - Definitions
 - Building and Existing Building
 - Mass Timber
- Chapter 3 – Occupancy Classification and Use
 - Greenhouse – Primary purpose
 - Alcohol –
 - Multi-Family alternative compliance



4

2024 OHIO BUILDING CODE

- Chapter 4 – Special Requirements based on Use and Occupancy
New Sections – 427 Medical Gas Systems and 428 Higher Ed Labs
- Chapter 5 – General Building Heights and Area
Fire wall – 503.1 and 706.1 – Height, Area and Type of Construction
Mass timber – Types of Construction – Ch 2, 5, 6, 7, 17 and 23

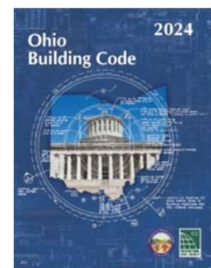


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2024 OHIO BUILDING CODE

- Chapter 6 – Type of Construction
Mass Timber – Type IV-A, IV-B and IV-C
Heavy Timber – Type IV –HT
- Chapter 7 – Fire and Smoke Protection Features
Mass Timber fire resistance
Fire wall and Party wall construction and limits –
- Chapter 8 – Interior Finishes

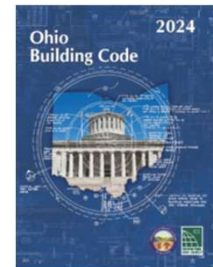


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2024 OHIO BUILDING CODE

- Chapter 9 – Fire Protection Systems
 - Fire area thresholds
 - Open parking garages
- Chapter 10 – Means of Egress
 - TDLD – Expanded to other occupancies
- Chapter 11 - Accessibility
 - Adult changing stations – Scope and technical requirements
 - New and additions – [A117.1-2017](#)
 - Alterations and change of occupancy – [A117.1-2009](#)

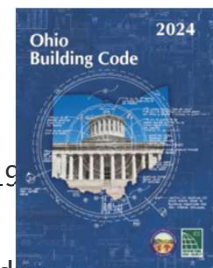


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2024 OHIO BUILDING CODE

- Chapter 12- Interior Environments -Efficiency dwelling unit area = 19
- Chapter 13 – Energy Efficiency - [2021 IECC](#) and [2019 ASHRAE 90.1](#)
- Chapter 14 – Exterior Walls - Continue development re: vapor retarders
- Chapter 15 – Roof Assemblies - Wind scour
- Chapter 16 – Structural Design - [ASCE 7-2016](#)
- Chapter 17 – Special Inspections -Mass timber; rated assemblies in Group R > 250 occ; MV and HV electrical systems
- Chapter 18 – Soils and Foundations - Frost protection at egress door ext. landing; Deep foundations – ACI references



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2024 OHIO BUILDING CODE



- Chapter 19 – Concrete - ACI 318 – 2019
- Chapter 20 – Aluminum -
- Chapter 21 – Masonry -
- Chapter 22 – Steel -Standards, testing, and verification updates
- Chapter 23 – Wood -Mass Timber, fastener updates, truss bracing, rafter ties
- Chapter 24 - Glass
- Chapter 25 – Gypsum Board and Plaster
- Chapter 26 - Plastic



9

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2024 OHIO BUILDING CODE



- Chapter 27 – Electrical - NFPA 70 - 2023
- Chapter 28 – Mechanical Systems - OMC - 2024
- Chapter 29 – Plumbing Systems - OPC – 2024
 - Public swimming pool fixture count
 - Single user toilet and bathing facilities
 - Multi-user, multi-gender toilet facilities (not permitted in Group E)
 - Compartment standard
- Chapter 30 – Elevators and Conveying Systems - A17.1 -

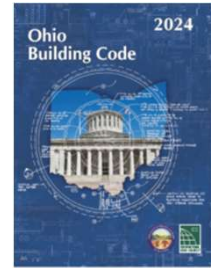


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2024 OHIO BUILDING CODE

- Chapter 31 – Special Construction
 - Temporary tents – Fire Code – 2021 IFC
 - Signs – IBC Appendix H
 - Public swimming pools
 - Solar Energy Systems
 - Greenhouses
 - Restrooms in flood hazard area
 - Shipping Containers

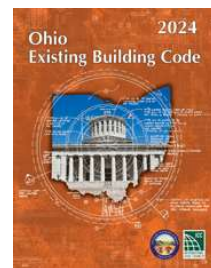
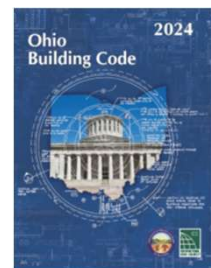


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2024 OHIO BUILDING CODE

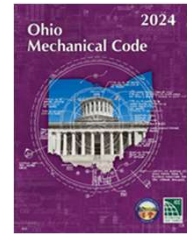
- Chapter 32 – Encroachments into the Public ROW
- Chapter 33 – Safeguards during Construction
 - Egress (OBC) and Fire Watch (IFC)
 - Fire Protection Water Supply
- Chapter 34 – Existing Buildings - **IEBC 2021**
 - Ohio amendments
 - Work Area Method – option.
- Chapter 35 – Referenced Standards
 - International Fire Code (IFC)



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2024 OHIO MECHANICAL CODE

- Chapter 2 – Definitions
 - Balanced Ventilation, Refrigerant Safety Group Classification
- Chapter 3 – General Regulation
 - Marking piping
- Chapter 4 - Ventilation
 - Group R Ventilation – mechanical, testing exhaust
 - Care Facilities – NFPA 99

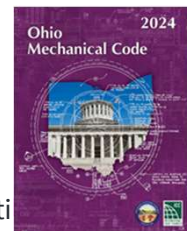


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2024 OHIO MECHANICAL CODE

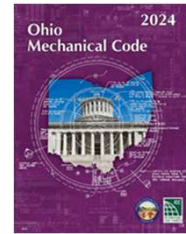
- Chapter 5 – Exhaust Systems
 - Clothes dryer exhaust – sealing, termination, booster fans v. power venting
 - Commercial kitchen hoods – smoker oven exception
 - ERV - Type II hoods permitted
- Chapter 6 – Duct Systems
 - Pipe and duct insulation in plenums
 - Phenolic ducts
 - Insulation – polyurethane foam plastic exception
 - Balancing - relocated



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2024 OHIO MECHANICAL CODE



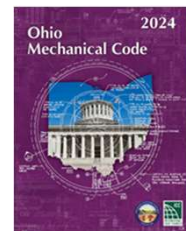
- Chapter 7 – Combustion Air
- Chapter 8 – Chimneys and Vents
 - Appliance Control – Vent obstruction
- Chapter 9 – Specific Appliances, Fireplaces and Solid Fuel-Burning Eq.
 - Cooling tower discharge – 25 ft
 - New sections –
 - 929 Unvented, alcohol fuel-burning decorative appliances and
 - 930 Large diameter ceiling fans
- Chapter 10 – Boilers, Water Heaters and Pressure Vessels



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2024 OHIO MECHANICAL CODE



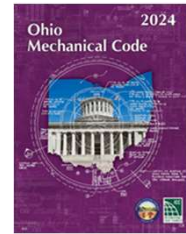
- Chapter 11 – Refrigeration –
 - Refrigerant updates
 - Differentiate ammonia and non-ammonia refrigerants – standards
 - Migrating standards – old and new
 - Machinery rooms –
 - Emergency pressure control references the IFC and
 - New section - Means of Egress
 - Section 1107 – 1111 are reorganized and updated – Three sections to Five
 - Materials, Connections, Installation, System Testing and Periodic Testing



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2024 OHIO MECHANICAL CODE



- Chapter 12 – Hydronic Piping
 - Recognize new products and standards – CPVC/AL/CPVC – PEX
- Chapter 13 – Fuel Oil Piping and Storage
- Chapter 14 – Solar Thermal Systems
 - Specific to “Thermal” applications only
 - ICC 900 and 901 standards
- Chapter 15 – Referenced Standards



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2024 OHIO PLUMBING CODE



- Chapter 1 – Administration
 - Provisions of OPC enforced by building official
- Chapter 2 – Definitions
 - Private v Public and Public Utilization
 - Press Connect Joint
 - Push-fit Fitting
 - Swimming Pool – Private Residential and Public
- Chapter 3 – General Regulation
 - 312 Testing and Inspections – Ohio modifications remain mostly unchanged



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2024 OHIO PLUMBING CODE



- Chapter 4 – Fixtures, Faucets and Fixture Fittings
 - Table 403.1 – Configuration and footnote updates – swimming pools
 - Fixture calculation - exceptions added – single-user and all gender facilities
 - Separate facilities – exceptions added – impact on Group E
 - Location of facilities – exception for Group S
 - Water Closet Compartment – multi-user, all gender facilities
 - Emergency shower and eyewash – temperature mixing
 - Relocated all sections – 412 through 427
 - Deleted section 422 – Health Care Fixtures and Equipment



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2024 OHIO PLUMBING CODE



- Chapter 5 – Water Heaters
- Chapter 6 – Water Supply and Distribution
- Chapter 7 – Sanitary Drainage
- Chapter 8 – Indirect/Special Waste
- Chapter 9 – Vents
- Chapter 10 – Traps, Interceptors and Separators
- Chapter 11 – Storm Drainage
- Chapter 12 – Special Piping and Storage Systems



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2024 OHIO PLUMBING CODE



- Chapter 13 – Nonpotable Water Systems –
Ohio Department of Health (ODH)
- Chapter 14 – Subsurface Landscape Irrigation Systems –
Ohio Department of Health (ODH)
- Chapter 15 – Referenced Standards



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2024 STANDARDS

- Promulgating Agency, Title and Edition – OBC Ch 35, OMC Ch 15, OPC Ch 15
- Accessibility
 - New construction – 2017
 - Existing building – 2009
- Energy
 - Climate zones, Envelope, Equipment Efficiency, Controls, Testing & Commissioning
 - IECC – 2021
 - ASHRAE 90.1 - 2019
- Electrical – NFPA 70 – 2023



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2024 - OTHER RULES ADOPTED BY THE BOARD

- Boiler – OAC 4101:4
- Elevator – OAC 4101:5
- Existing Buildings – OAC 4101:1-34-01
- Industrialized Units – OAC 4101:10
- Certifications – OAC 4101:7

- Amendments to the Residential Code of Ohio (3 rules only) – OAC 4101:8
 - RCO Ch 4 – Frost protection exceptions added
 - RCO Ch 34 – Electrical standard and amendments updated
 - RCO Ch 44 – Updates to some referenced standards



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QUESTIONS?

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Commerce**

Ohio Board of Building Standards



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