

Afternoon Session 2

- About the Chicago Building Rehabilitation Code
- Intent of the Rehab Code
- Reason for the Rehab Code
- Applicability of the Rehab Code
- Baseline Requirements
- Compliance Options
- Organization of the Rehab Code

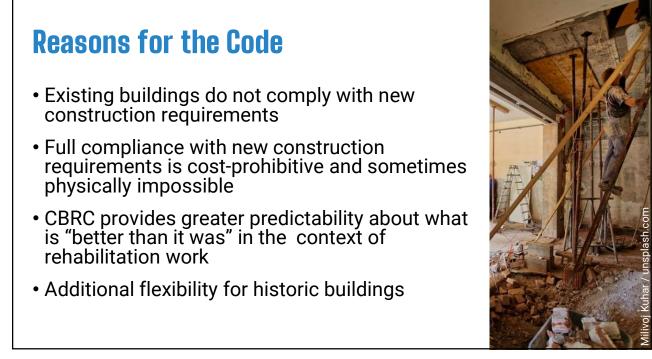


Building Rehabilitation Code

The intent of this code is to provide flexibility to allow the use of alternative approaches to achieve compliance with minimum requirements to safeguard the public health, safety and welfare insofar as they are affected by the *repair*, *alteration, change of occupancy, addition,* and relocation of *existing buildings*.

Section 14R-1-101.3

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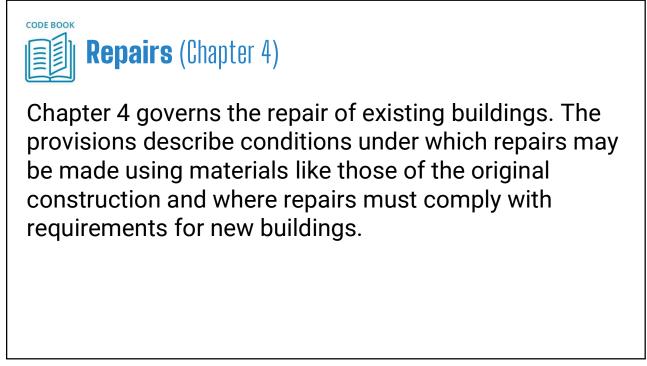
Applicability of the Chicago Building Rehabilitation Code

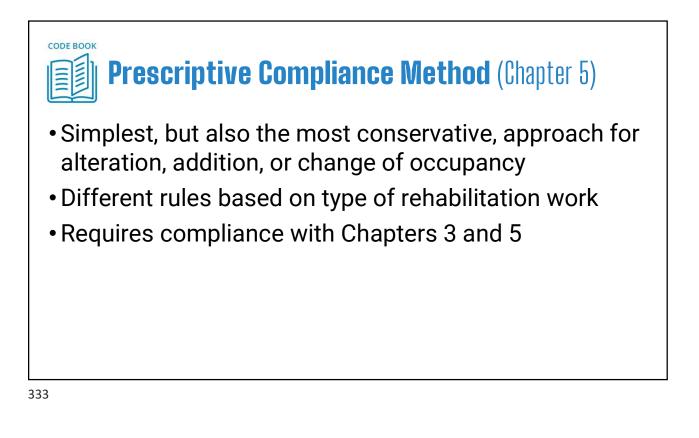
- Previously-occupied buildings May comply with CBC or CBRC
- Not-previously-occupied buildings and spaces Must comply with CBC (new construction)
- Porches, decks, balconies, accessory structures May be repaired or replaced with matching structure
- Any project may elect to fully comply with new construction requirements (Title 14B)

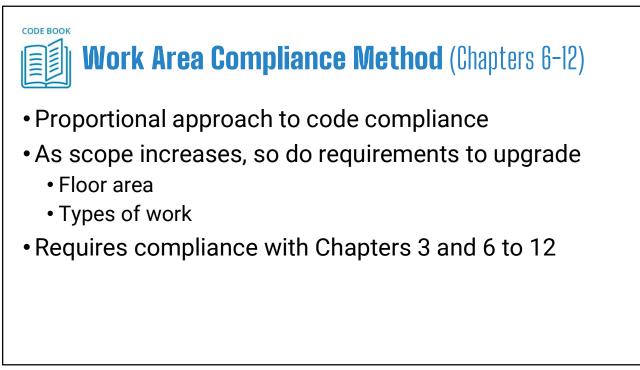
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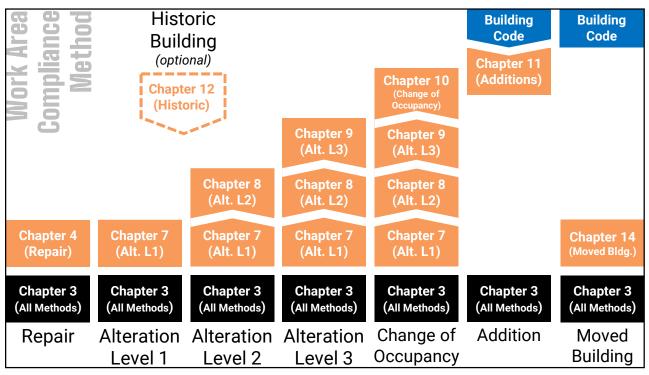
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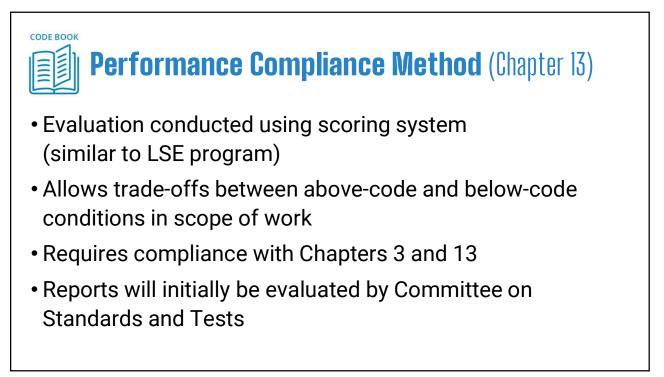






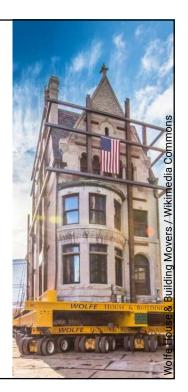








- Applies to any building that is relocated, either on same lot or from one lot to another
- If scope includes other types of rehabilitation work, must comply with one of the compliance options





	Chicago Minimum Requirements
lon long	Requirements

- regulate the condition and maintenance of existing buildings, existing structures, and outdoors areas,
- establish responsibilities of owners
- establish minimum requirements for:
 - light
 - ventilation
 - space
 - security
 - electricity
 - plumbing
- weather protectionfire protection
- The protection

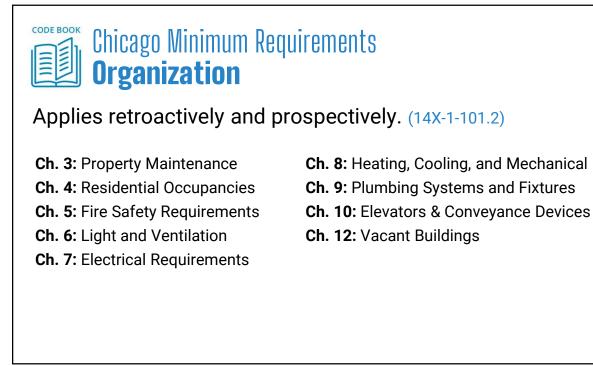
sanitation

heating

cooling

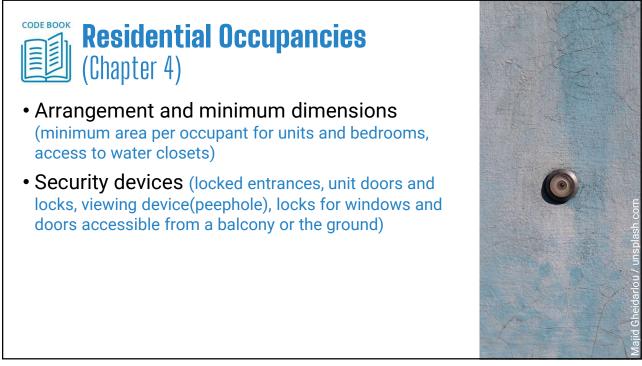


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- Exterior structure (structural integrity, weather protection, insect screens)
- Interior structure (structural integrity, maintenance)
- Component serviceability (unsafe conditions)
- Handrails and guards (number, height, openings)
- Rubbish, garbage, and pest management





- Fire and smoke protection features (maintenance of fire-resistive construction and opening protective; protection of vertical openings, shafts and chutes; required door closers)
- Fire protection and life safety systems (retroactive requirements for: sprinkler and fire alarm systems; fire extinguisher requirements; high-rise voice communication systems; smoke alarms and CO alarms)
- Means of egress (Minimum maintenance, dimension and illumination requirements; panic hardware; exit signs; storage beneath stairways; fire escapes)
- Life safety compliance plan (features installed under LSE program must be maintained)



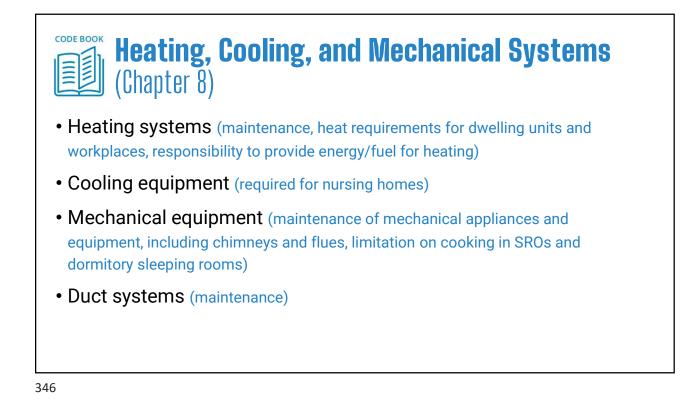
2019 Chicago Construction Codes Basics 10/15/2020

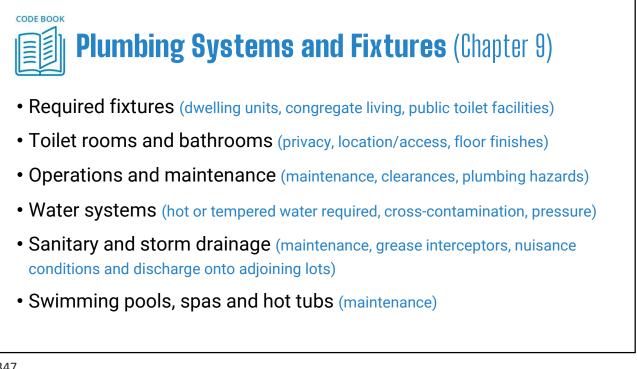


Electrical Requirements (Chapter 7)

- Electrical system (minimum service, labeling of panel, electrical hazards caused by water or fire exposure)
- Electrical equipment (installation requirements, unsafe equipment, abandoned electrical equipment and wiring, minimum receptacles and luminaires, electric motor maintenance)
- Emergency electrical system (Refers to Chicago Electrical Code, Art. 700)
- Electrical hazards (extension cords, electric space heaters)

Note: If deficiencies found, residential upgrades may need to comply with minimum requirements in Art. 570 of the Chicago Electrical Code.





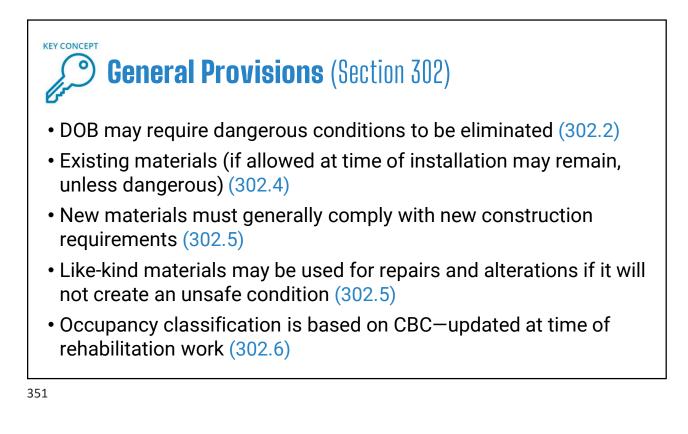


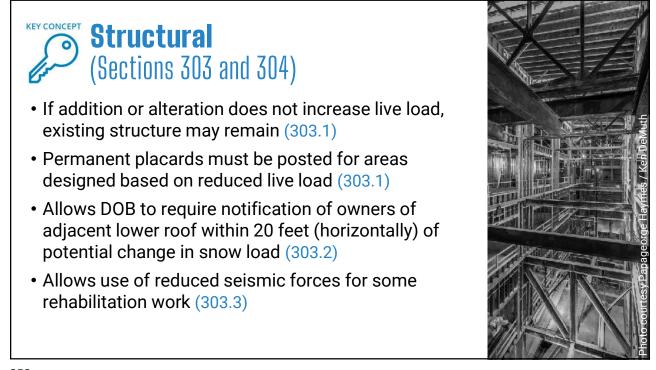
2019 Chicago Construction Codes Basics 10/15/2020



Provisions for All Compliance Methods

- Chapter 3 of the Rehab Code includes provisions that apply to all compliance options and methods
 - General (302)
 - Structural requirements (303 and 304)
 - Accessibility (305)
 - Reroofing (306)
 - Fire escapes (307)
 - Electrical (308)
 - Residential occupancies (309)





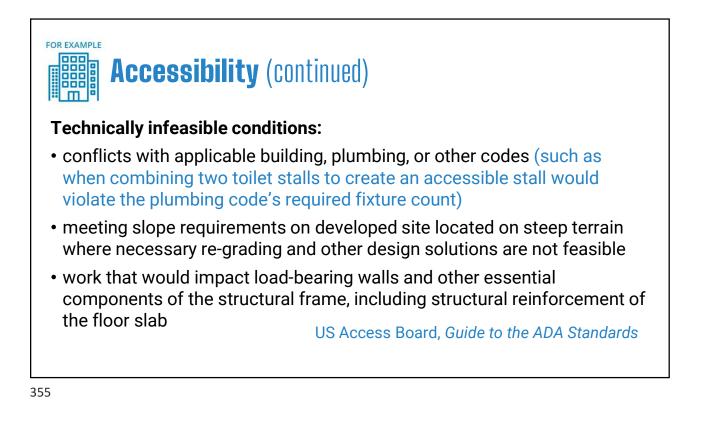


- Generally, rehabilitation work must comply with accessibility requirements unless:
 - Technically infeasible
 - Scoping exception applies
- Rehabilitation work generally cannot remove features of accessibility (305.2)
- Rehabilitation work does not need to meet new construction requirements for an accessible means of egress. (305.6, ex. 2)



Accessibility (continued)

TECHNICALLY INFEASIBLE. An *alteration* of a *facility* that has little likelihood of being accomplished because the existing structural conditions require the removal or *alteration* of a load-bearing member that is an essential part of the *primary structural frame*, or because other existing physical or *site* constraints prohibit modification or addition of *elements*, *spaces* or features which are in full and strict compliance with the minimum requirements for new construction and which are necessary to provide accessibility.



Accessibility—Scoping

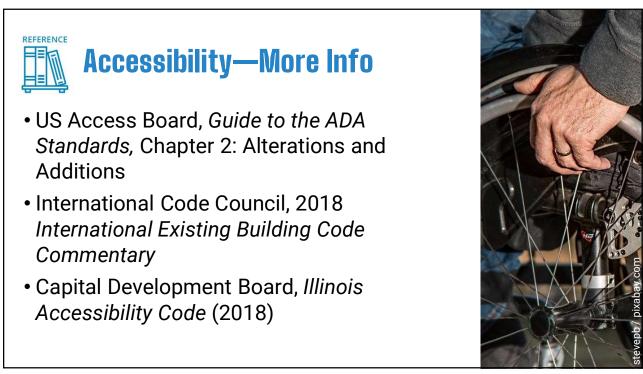
- Repair (305.2.1)
- Alteration (305.6)
- Alteration affecting primary function area (305.7)
- Addition (305.5)
- Partial change of occupancy (305.4.1)
- Complete change of occupancy (305.4.2)
- Change of occupancy to residential (305.4.3)

Accessibility—Scoping (continued)

Where an alteration affects the access to or contains a primary function area, an accessible route must be provided for the primary function area and toilet and drinking fountains serving the primary function area.

Exception: Cost of providing accessible route not required to exceed 20% of the cost of the alterations to the primary function area

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- Roof repair (comply with Ch. 4) allowed up to 25% of roof surface area. (306.1)
 - more than 2 layers of roofing requires signoff from design professional that structure is adequate (306.2, Ex.)
- Roof recover allows 2 layers max, or design professional condition report (306.3.1)
- Roof replacement (tear-off) allowed 3 exceptions from new roof requirements (306.1)





- Fire escapes not allowed for new buildings (307.1)
- Fire escapes may be approved (ACAR) for existing buildings (307.1.3)
- Fire escapes limited to 50% required egress capacity (307.1.4)
- Fire escapes must provide 12' clearance over sidewalk or 14' clearance over alley



Fire Escapes (continued)

- Construction and dimensional requirements (307.3, 307.4)
- Openings within 10' of fire escape stairway in non-sprinklered buildings must have 45 min. fire protection rating (no requirement for sprinklered building) (307.5)
- Removal of existing fire escape requires ACAR signed by DOB and CFD based on substantial compliance of remaining means of egress with CBC requirements (307.6)

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Residential Occupancies— 1 Additional Unit

- Number of stories limited by construction type (Table 309.1.1)
- For basement units, walls must be impervious to leakage
- Minimum room dimensions (floor area, ceiling height) must meet CBC 1207
- Natural light and ventilation per CBC
- Means of egress required per CBC, except one means of egress may pass through heating plant
- Separation from other units by 1/2-hour construction or plaster and lath (walls and floor-ceiling)
- Separation from incidental uses per CBC Table 509

Residential Occupancies— **2+ Additional Units**

- All requirements applicable to adding 1 unit
- Interior exit stairways must be enclosed with 2-hour construction (1-hour if connecting 3 or fewer stories)
- Construction separating existing units from corridors must have 30minute fire-resistance rating
- Construction separating new units from corridors and other units must have 1-hour fire-resistance rating
- New and existing unit doors must be $1^{3\!4}"$ solid wood, 20 minute archaic assemblies, or per CBC
- Exit stairway and unit doors must be self-closing
- All incidental uses in building must be enclosed per CBC Table 509
- Basement ceiling construction must be 1-hour rated per CBC 605.4.

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Change of Use to **Congregate Living Facility** (Co-living)

Triggered by alteration or permit for use as congregate living facilities for first time:

 If more than 3 sleeping units (separately-rented bedrooms), NFPA 13 or 13R sprinkler system is required throughout building.

Pre-1958 Openings for Light and Ventilation

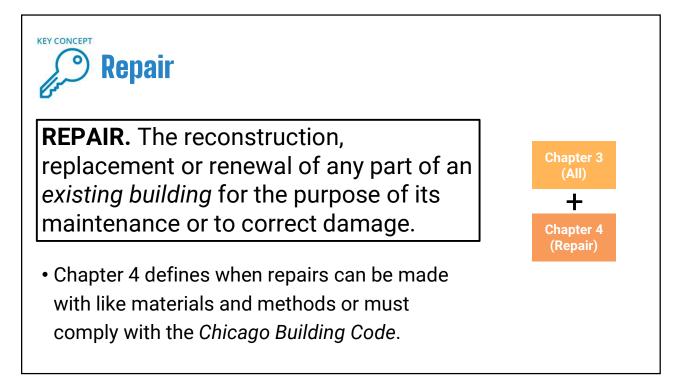
In Group R occupancies constructed or occupied for residential purposes before January 1, 1958, the minimum dimension of yards and courts for natural light in CBC Section 1205 may be reduced 6 inches.

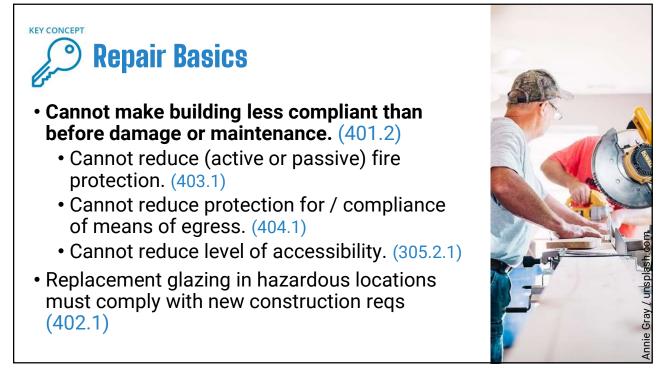
- New or existing openings in pre-1958
 exterior walls
- Not for change of occupancy to Group R

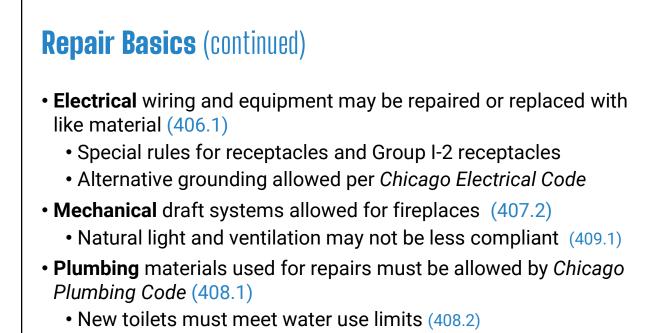


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Repair—Structural

Structural damage to a building can occur to buildings for a number of reasons—caused by nature or humans

- Repairs to buildings with less than *substantial structural damage* can restore structural elements to pre-damaged condition (405.2.1)
- Substantial structural damage defined in Chapter 2
- Snow damage must be repaired to meet new construction snow load requirements (405.2.1.1)



Repair—Structural (continued)

- Repairs to buildings with substantial structural damage must be based on evaluation by a registered design professional (405.2.3)
- If gravity load-carrying elements have substantial structural damage, the structure must be upgraded to meet current loading reqs. (405.2.4)
- Roof repairs limited to 25% of roof area (306.1)



• Where *repair* is made necessary by reason of damage by fire, that fact must be stated on the permit application. (14A-4-410.3(1.1))

