

BFAAM Apprenticeship Program

Period 3

Reading Assignment for
Module 2 – Michigan Building Code
Reading material associated with this
module: Chapters 3, 4 & 7 of the Michigan
Building Code, 2015 edition

2015 MBC Use & Occupancy Classification

- A-1 (Assembly): Fixed seating for viewing motion pictures or performing arts
 - A-2: Food and/or drink consumption
 - A-3: Worship, recreation or amusement
 - A-4: Spectator seating for indoor sporting events and activities
 - A-5: Participation or viewing of outdoor activities
- 303.2 thru 303.6

2015 MBC

Occupancy Classification

- B (Business): Used for office, professional or service type transactions
- E (Educational): Use of building or portion of by 6 or more persons at any one time for educational purposes through the 12th grade

304.1 & 305.1

2015 MBC

Occupancy Classification

- F-1 (Factory): Industrial uses, moderate hazard classification
- F-2: Industrial uses involving non-combustible materials which do not involve a significant fire hazard

306.2, 3

2015 MBC

Occupancy Classification

- H-1: High hazard use involving a detonation hazard
 - H-2: High hazard use involving materials that pose a deflagration hazard
 - H-3: High hazard use involving materials that readily support combustion
 - H-4: High hazard use involving health hazards
- 307.3, 4, 5, 6

2015 MBC

Occupancy Classification

- H-5: High hazard use involving hazardous production materials in off list quantities.

307.7

- I-1 (Institutional): Housing more than 16 persons on a 24 hour basis in a supervised environment who receive custodial care.
Condition 1 - Occupants capable of self evacuation.

308.3

2015 MBC

Occupancy Classification

- I-2: Medical or custodial care for more than five persons who are not capable of self evacuation

308.4

- I-3: Detention facilities occupied by more than five persons who are generally not capable of self evacuation due to security measures beyond their control

308.5

2015 MBC

Occupancy Classification

- I-4: Day care facility with more than five persons of any age who receive custodial care for less than 24 hours

308.6

- M (Mercantile): Facilities for the display and sale of merchandise

309.1

2015 MBC

Occupancy Classification

- R-1 (Residential): Sleeping units where the occupants are primarily transient
- R-2: Sleeping or more than 2 dwelling units where the occupants are primarily permanent
- R-3: Not more than 2 dwelling units where the occupants are primarily permanent

310.3,4,5

2015 MBC

Occupancy Classification

- R-4: Residential care/assisted living for more than five persons but not more than 16 persons, excluding staff, who reside on a 24-hour basis and receive custodial care 310.6
- S-1 (Storage): Moderate hazard storage of combustibles 311.2
- S-2: Low hazard storage of non-combustibles 311.3

2015 MBC

Special Occupancies

- Covered mall buildings - Section 402
 - Buildings exceeding 50,000 sq. ft. shall be equipped with an emergency voice/alarm communications system in compliance with NFPA 72 402.7.4
- High Rise buildings - Section 403
 - 55' in Michigan
 - Smoke detection, EVACS, fire fighter phone system in compliance with NFPA 72 required

2015 MBC

Special Occupancies

- Stages and Platforms - Section 410
 - Proscenium fire curtains shall be activated by rate of rise heat detectors installed in compliance with NFPA 72
- Special Amusement Buildings - Section 411
 - Shall be equipped with automatic detection
 - Emergency voice alarm/communications system in compliance with NFPA 72

2015 MBC

Special Occupancies

- Air Traffic Control Towers - Section 412
 - Shall be equipped with automatic fire detection system installed in accordance with section 907.2
- Hazardous Materials - Section 415
 - Shall be equipped with automatic fire detection system installed in accordance with section 907.2
 - Emergency alarms shall be provided in storage, dispensing, use and handling areas, and shall include detection & notification of an emergency condition 415.5

2015 MBC

Fire Rated Construction

- Penetrations of fire or smoke rated walls must comply with Section 714 - Penetrations
 - Shall be in a fire-resistance-rated assembly
 - Shall be in steel, ferrous or copper pipes or conduit (max 6" dia.), with the annular space filled with concrete, grout or mortar in a masonry or concrete wall, or with approved fire caulk

714.3.1

2015 MBC

Fire Rated Construction

- Penetrations of smoke barriers shall:
- Be tested per UL 1479 for air leakage
- Not exceed 5.0 cfm per square ft. of penetration opening at 0.30 inches of water for both the ambient temperature and elevated temperature tests

714.4.4

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Module 3 – Michigan Building Code

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module: Chapter 9, sections 901 - 906 of the
Michigan Building Code, 2015 edition