



Regulatory Codes

- NFPA 101®: The Life Safety Code® (LSC)
 2012 Edition
- Referenced Standards (NFPA 10, NFPA 13, NFPA 25, NFPA 72, NFPA 80, and NFPA 105)



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Polling Devices

- Press any key to turn on device
- Confirm Channel is 41
- When instructed to do so, push appropriate black letter key

The "Test" System

- Question displayed
- Use clicker to select response
- Further discussion and explanation based on percentage of correct responses

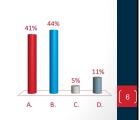


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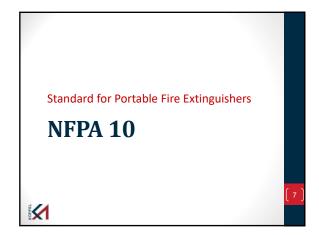
Test Question

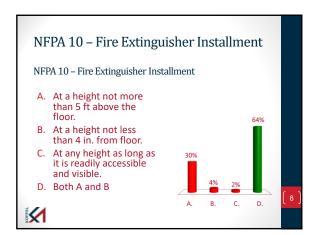
With the NFL schedule released, who will win the next Super Bowl?

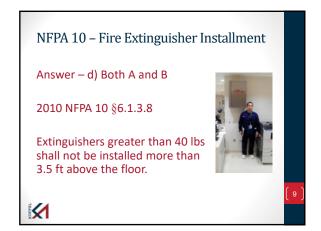
- A. Bills
- B. Patriots
- C. Ravens
- D. Giants

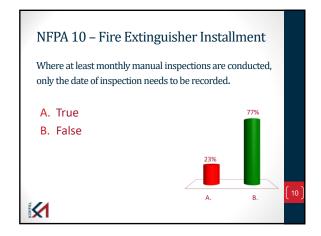


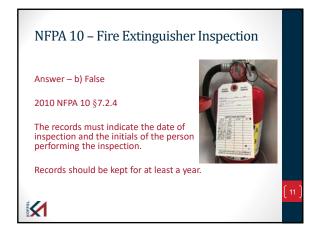


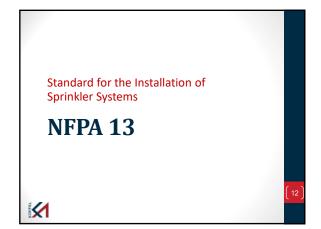


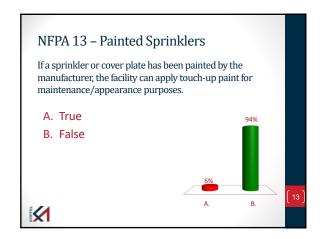




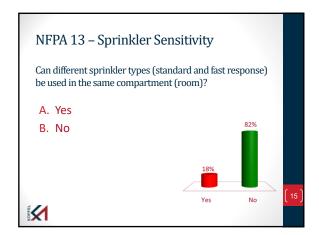


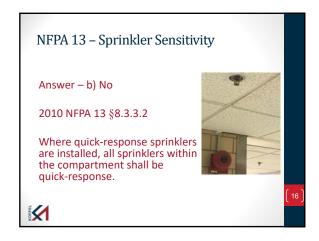


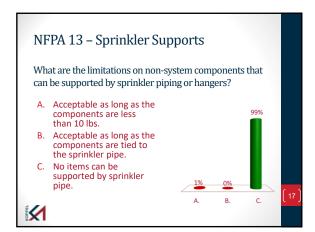






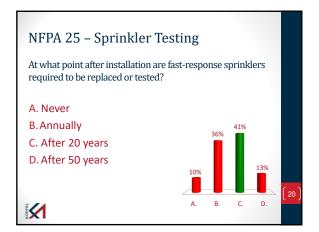


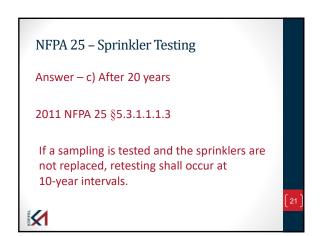


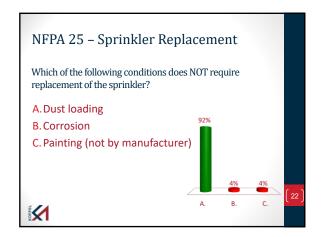


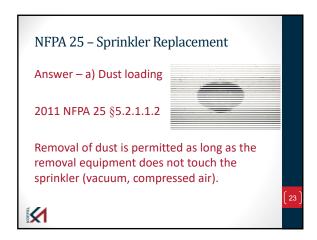


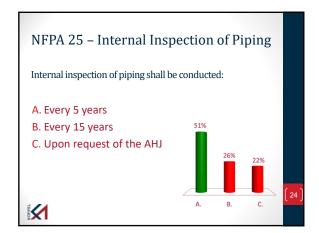




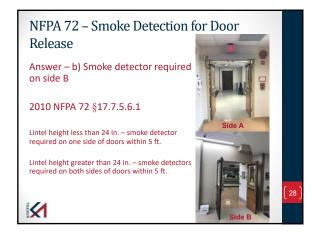


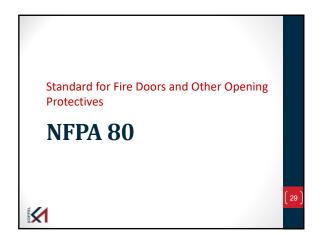


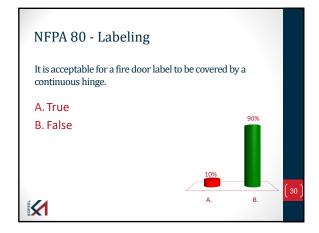




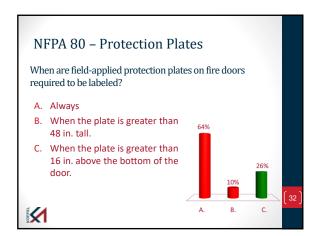
NFPA 25 - Internal Inspection of Piping Answer – a) Every 5 years 2011 NFPA 25 §14.2.1 Alternative nondestructive examination methods may be permitted. May also do alternate systems in buildings with multiple systems. National Fire Alarm and Signaling Code **NFPA 72** NFPA 72 - Smoke Detection for Door Release Where smoke detection is required for door release, and the lintel height above the door is less than 24 in. on side A and 24 in. on side B where is smoke detection required? A. Smoke detector required on side A. B. Smoke detector required on side B. C. Smoke detectors required on both sides of doors.



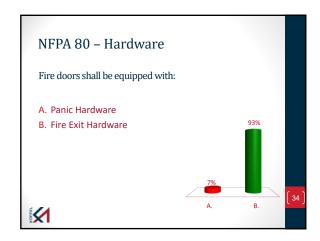




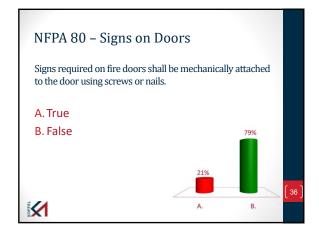
NFPA 80 - Labeling Answer – b) False 2010 NFPA 80 §4.2.2 Labels must be readily visible and convenient for identification by the Authority Having Jurisdiction.













Requirements • NFPA 101-2012 Life Safety Code • NFPA 80 - 2010 - Fire Doors • NFPA 105-2010 - Smoke Door Assemblies

Requirements

4.6.12 Maintenance, Inspection, and Testing. (NFPA 101-2012 Edition)

4.6.12.1 Whenever or wherever any device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or any other feature is required for compliance with the provisions of this Code, such device, equipment, system, condition, arrangement, level of protection, fire-resistive construction, or other feature shall thereafter be continuously maintained. Maintenance shall be provided in accordance with applicable NFPA requirements or requirements developed as part of a performance-based design, or as directed by the authority having jurisdiction.

* NFPA 101 – 2012 Edition references NFPA 80 -2010 Edition

* NFPA 80 - New requirement to inspect all fire doors on an annual basis



Requirements

- CMS S&C 17-38 LSC July 28, 2017
- All fire doors are to be inspected annually as required by NFPA 80
- New doors in horizontal exits are to be inspected annually
- Compliance by January 1, 2018
- Local building/fire codes
 - Some editions of the IBC required S-labeled doors for openings in smoke barriers
 - International Fire Code also references NFPA 80 and NFPA 105



Fire Doors in Non-rated Barriers

- Doors must be inspected annually or the label must be removed per HITF
 - LSC 4.6.12.3 Existing life safety features obvious to the public, if not required by Code shall either be maintained or removed
- Perspectives April 2018
 - Sticker may be placed over the label



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NFPA 80 Inspection and Testing Qualifications

- 5.2.3.1testing of fire door and window assemblies shall be performed by individuals with knowledge and understanding of the operating components of the type of door being subject to testing.
- NFPA 80 2013 changed to refer to qualified person
- 3.3.95 Qualified Person. A person who, by possession of a recognized degree, certification, professional standing, or skill or who, by knowledge, training, and experience, has demonstrated the ability to deal with the subject matter, the work, or the project



Clearances

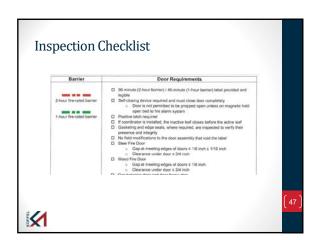
- Maximum clearance between door and frame
- \leq 1/8 in. for wood doors
- 1/8 ± 1/16 in. for steel doors
- Maximum clearance under fire/smoke barrier doors 3/4 in.
- Maximum clearance under smoke-resistive doors 1 in. (per NFPA 101)

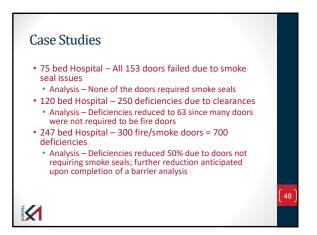




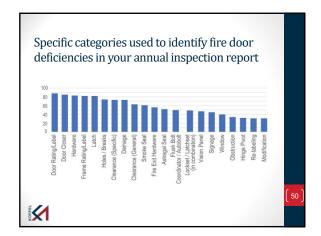


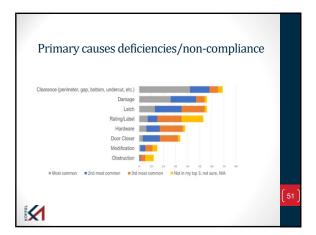


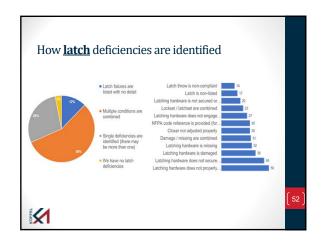


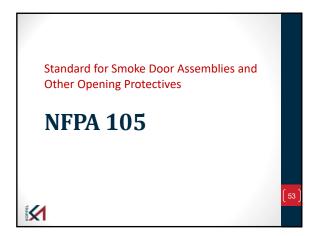


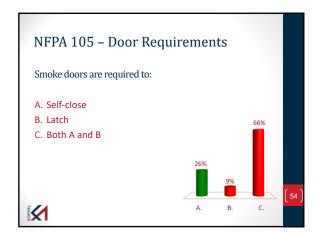
Summary • NFPA 80/105 require inspections for compliance with the requirements of the standards. • Does not include an analysis of the Code requirements • 48 in. protection plates permitted by NFPA 101 • Most inspections are done to the current, or possibly 2010, editions of NFPA 80/105 • Both documents as well as the NFPA 101 reference have a clause that the installation requirements do not apply to existing doors • If the door has a label, the inspector will inspect for compliance with the standards based upon the label • Many doors have fire door labels even though the door is not required to be a fire door. • Many doors have "S" labels even though they are not required • The scope of work is typically to inspect to NFPA 80/105

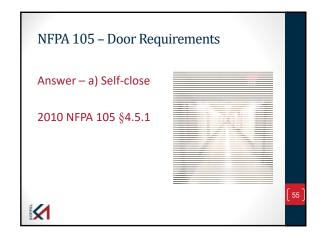


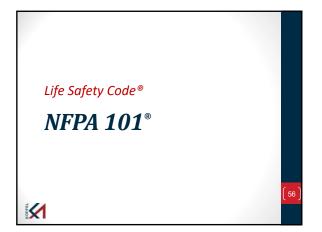


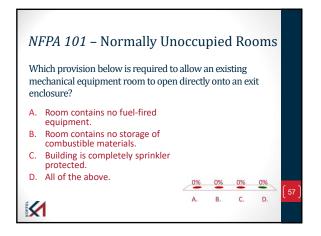




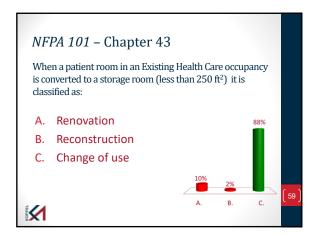


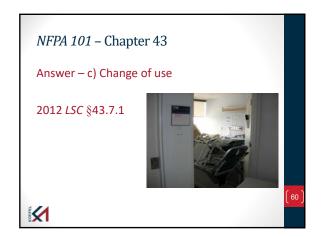


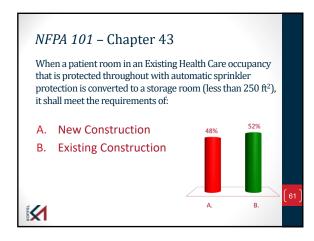




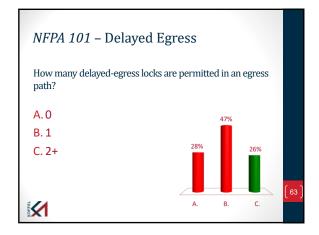
NFPA 101 – Normally Unoccupied Rooms Answer - d) All of the above 2012 NFPA 101 §7.1.3.2.1(9)(c) Opening must also be protected by properly rated door assembly 2018 NFPA 101 permits the mechanical space to be provided with sprinkler protection AND smoke/heat detection in lieu of complete building sprinkler protection

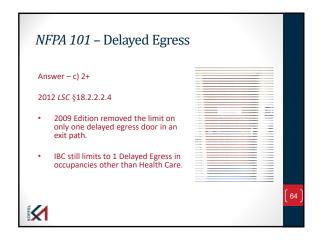


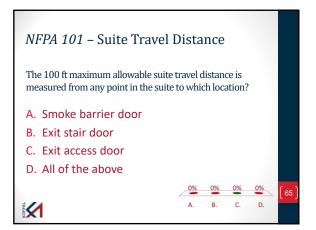


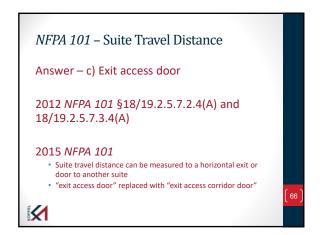


NFPA 101 – Chapter 43 Answer – b) Existing Construction 2012 LSC §43.7.1.2(2) • Smoke-resistive construction • Self-closing door

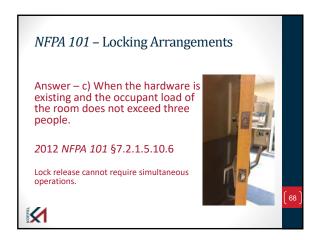


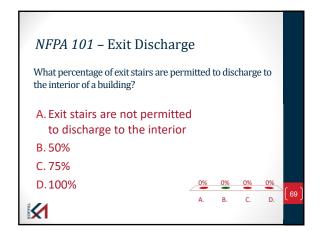






NFPA 101 – Locking Arrangements When are two releasing operations permitted on a door in a means of egress? A. When fast-response sprinklers are provided. B. When complete coverage smoke detection is provided. C. When the hardware is existing and the occupant load of the room does not exceed three people. D. All of the above.

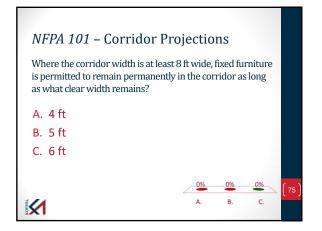




NFPA 101 – Exit Discharge	
Answer – b) 50%	
2012 NFPA 101 §7.7.2	
	<u></u>
	(70)
:XI	
NEDA 101 Fort Disabases	
NFPA 101 – Exit Discharge	
Which of the following is required for an exit stair which	
discharges to the interior of the building?	
A. Complete smoke detection	
throughout the level of exit discharge.	
B. Exterior exit is readily visible from stair discharge.	_
C. Automatic sprinkler protection of the level of exit discharge.	
of the level of exit discharge.	
0% 0% 0%	[71]
A. B. C.	
NFPA 101 – Exit Discharge	
Answer – c) Automatic sprinkler protection of the level of exit discharge.	
the level of exit discharge.	
2012 NFPA 101 §7.7.2	
Where complete building sprinkler protection is not provided the below are acceptable levels of protection:	
Complete sprinkler protection throughout the level of exit discharge. Sprinkler protection throughout portion of building containing exit discharge path where non-	
sprinklered areas of building are separated by 2-hr construction.	
2012 NFPA 101 - Exit path must be readily visible and identifiable. 2018 NFPA 101 - Exit path must be identifiable by exit signage from point of discharge to exit.	
2018 IBC – Exterior exit must be readily visible from the point of discharge.	[72]

NFPA 101 – Stair Signage When are new enclosed exit stairs required to have signage? A. All new stairs require signage. B. When serving 3 or more floors. C. When serving 5 or more floors.

NFPA 101 – Stair Signage Answer – b) When serving 3 or more floors. 2012 NFPA 101 §7.2.2.5.4 Existing stairs require signage when serving 5 or more floors.



NFPA 101 - Corridor Projections Answer – c) 6 ft 2012 NFPA 101 §18/19.2.3.4(5)(b) • Furniture must be on one side of the corridor. • Furniture must be permanently fixed (bolted). NFPA 101 - Door Latching Are fire pins permitted as a second point of latching for a set of doors in a 2-hr fire barrier? A.Yes B.No

NFPA 101 – Door Latching Answer – a) Yes 2012 NFPA 101§7.2.1.5.2/ 2010 NFPA 80 §7.4.3.3 Two points of latching are required per leaf for a pair of doors in a 2-hr barrier, or 3 points of latching per assembly if the door leaves interact.

