

MCN401: Industrial Safety Engineering

Module 3_Lecture #4

Relevant Indian Standards and the National Building Code provisions on construction safety

1) SP70:2001- Handbook on construction safety practices

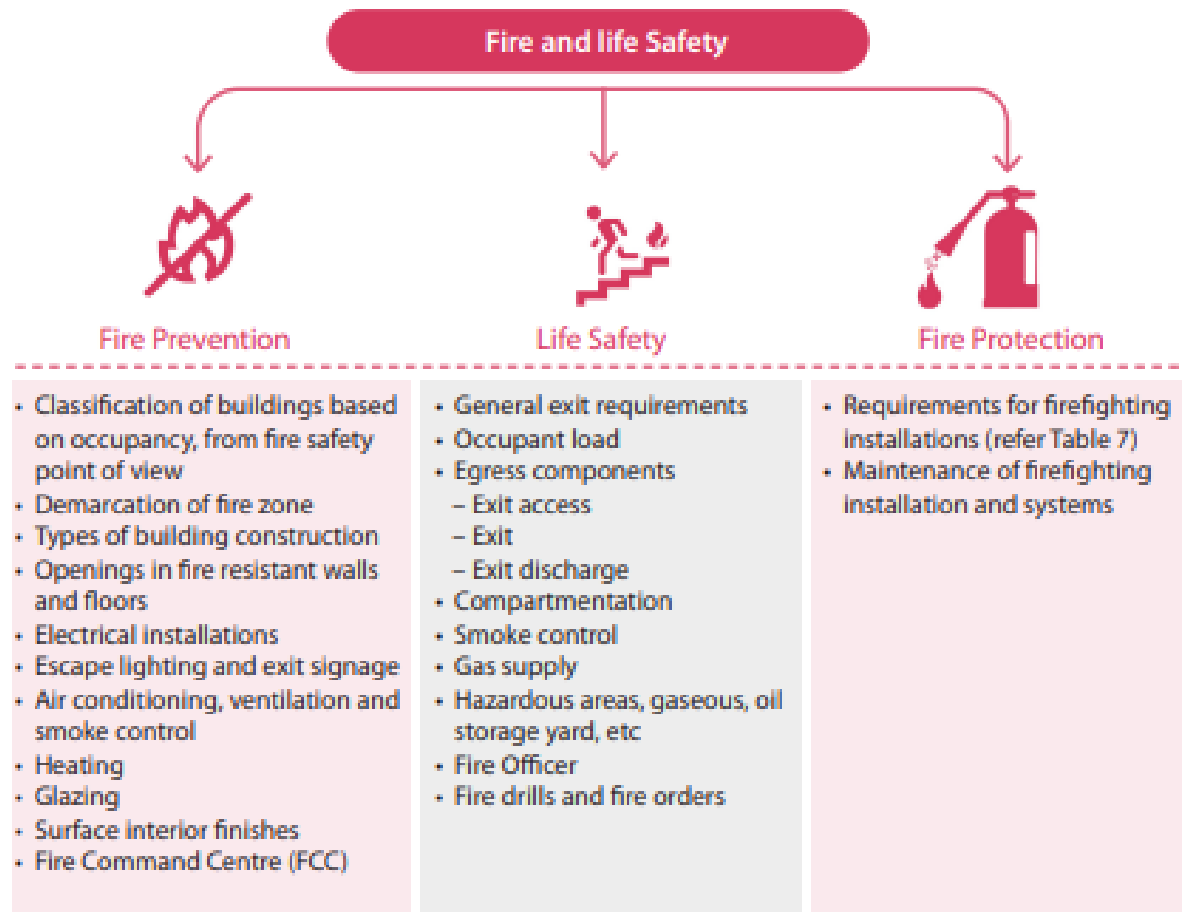
This Handbook on Construction Safety Practices has been prepared for site engineers, project managers and engineers-in-charge of buildings and civil works projects. It is based on the Indian Standards on the subject and is written in a readable style for easy reference by users.

Users should be conversant with technical as well as administrative/ legal aspects of safety, the former stem out of the standards and the latter from labour laws, contract document and judicial pronouncements. This Handbook deals with only the technical aspects of safety in construction.

2) NBC 2016 (National Building Code of India)-

- Part 4: Fire and Life Safety
- Part 7: Construction management, Practices and Safety (IS SP7-NBC (2016))

Part 4 at a glance



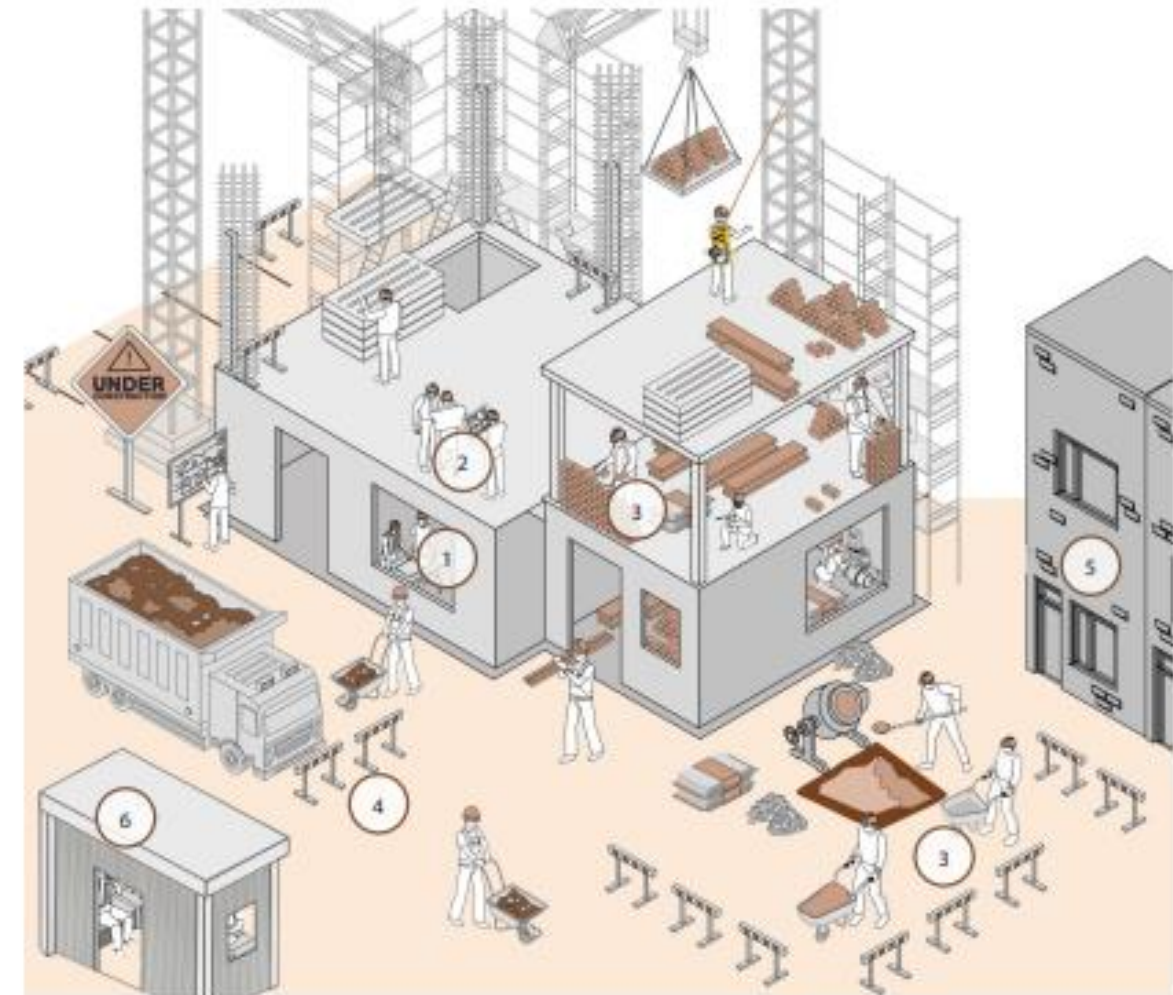
Additional occupancy wise requirements

Additional fire safety requirements for high rise building, atrium, commercial kitchen, car parking facilities, metro stations, metro trainways and measures for venting in industrial buildings, are also covered in this Part of NBC 2016.



All buildings shall satisfy minimum requirements for safety of life from fire, smoke, fumes or panic arising from these or similar causes.

Part 7 at a glance



- 1) Construction management (time, cost, quality, health and safety)
- 2) Construction planning and site management

- 3) Construction practices
- 4) Safety in construction

- 5) Repairs, retrofitting and strengthening of buildings
- 6) Habitat and welfare requirements for workers

Standards relating to construction project management functions and construction practices are also referred in this Section.



For more details on Part 7, please refer to NBC 2016

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3) Safety, Health and Environment Handbook 2019

This Hand book in conjunction of emergency action plan intend to define minimum requirement of safety, health and environmental management system to be implemented on in CPWD works to maintain high standards of SHE at construction sites. . It is intended to be used by engineers, architects and contractors during planning and execution stages.

Civil Engineering Construction	
IS 875:1987	Structural safety of building: Loading Standards Part 1-5
IS 1905:1987	Structural safety of buildings : Masonry Walls
IS 4014:1967	Code of practice for steel tubular scaffolding - 2 parts
IS 4138 :1977	Safety code for working in compressed air (first revision)
IS 4912 :1978	Safety requirements for floor and wall openings, railings and toe boards (first revision)
IS 7293:1974	Safety code for working with construction machinery
IS 7969:1975	Safety code for handling and storage of building materials
IS 9944:1992 IS	Recommendations on safe working load for natural and man-
	made fibre rope slings
11972:1987	Code of practise safety for protective barriers in and around building
IS 7293:1974	Safety code for working with construction machinery
IS 7969:1975	Safety code for handling and storage of building materials