

STRUCTURAL COLLAPSE OPERATIONS OBJECTIVES

- 50-1 Identify the destructive forces that may be placed on structure. (3-3.3a)
- 50-2 Identify the properties of materials used in building construction. (3-3.3a)
- 50-3 Identify major fundamentals of structural design. (3-3.3a)
- 50-4 Identify types of building construction. (3-3.3a)
 - A. Wood frame (W)
 - B. Light gauge metal (S3)
 - C. Unreinforced masonry (URM)
 - D. Diagonally braced steel frame (S2)
 - E. Concrete frame (C1 and C3)
 - F. Concrete Shearwall (C2)
 - G. Precast concrete frame (PC2)
 - H. Post-tensioned lift slab
 - I. Tilt-up concrete wall (TU)
- 50-5 Identify the different types and characteristics of responses to a structural collapse incident. (3-3.3b)
 - 50-5.1 Initial spontaneous response
 - 50-5.2 Planned community response
 - 50-5.3 Void space rescue
 - 50-5.4 Technician level/FEMA/US&R
- 50-6 Identify the components of size-up/risk assessment. (3-3.3b)
- 50-7 Identify the components of a building assessment (3-3.3b&c)
 - A. Collapse mechanisms
 - B. Collapse patterns
 - C. Degree of survivability
 - D. Victim accessibility
 - E. Prior intelligence
 - F. Resources available
 - G. Structural condition

50-8 Describe the different marking systems used in structural collapse. (3-3.3b&c)

- 50-8.1 Building identification
- 50-8.2 Hazard marking
- 50-8.3 Search assessment marking
- 50-8.4 Victim marking

50-9 Describe stages of search and rescue planning. (3-3.3)

50-10 Identify hazards associated with structural collapse incidents. (3-3.3a)

- 50-10.1 Risk assessment components
- 50-10.2 Safety planning

50-11 Identify five categories of tools and their uses. (3-3.3d)

50-12 Identify various shoring systems and their applications (303.3e)

- 50-12.1 Identify the function and need of rescue shoring
- 50-12.2 Identify the building, construction and loads to be supported
- 50-12.3 Identify the capacities and configuration of rescue shoring
- 50-12.4 Identify the type of shoring commonly used

- A. Cribbing
- B. Window/Door shoring
- C. T-Spot shoring
- D. Vertical shore
- E. Laced Post shore
- F. Sloped floor shore
- G. Raker shore
- H. Horizontal shore
- I. Mechanical and Pneumatic shore

50-13 Identify the need for victim assessment, care and packaging. (3-3.3d)

50-14 Given a summary of five categories of tools and their uses, the student shall identify and demonstrate their uses with 100% proficiency.

50-15 Given a summary of types of shoring, the student shall identify and demonstrate constructing the following with 100% proficiency.

- A. Cribbing
- B. Window/Door shoring
- C. T-Spot shoring
- D. Vertical shore
- E. Laced Post shore
- F. Sloped floor shore
- G. Raker shore
- H. Horizontal shore
- I. Mechanical and Pneumatic shore

50-16 Given a summary of victim assessment, care and packaging, the student shall demonstrate care and packaging a victim with 100% proficiency.

() Indicates reference to NFPA 1670

“BOLD” Indicates a practical objective that is included in the practical section of the instructors guide

