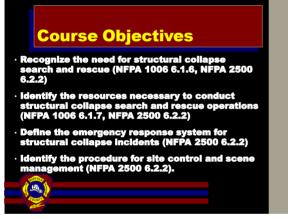


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Course Objectives (Cont'd) Recognize general hazards associated with structural collapse incidents, including the recognition of applicable construction types and categories and the expected behaviors of components and materials in structural collapse (NFPA 1006 6.1.1, NFPA 2500 6.2.2) Identify the types of collapse patterns and potential victim locations (NFPA 2500 6.2.2) Recognize the potential for secondary collapse (NFPA 2500 6.2.2).

6

Course Objectives (Cont'd)

- Describe the procedure of visual and verbal searches at structural collapse incidents, using approved methods for the specific type of collapse (NFPA 1006 6.1.2, NFPA 2500 6.2.2)
- Define a search and rescue / search assessment marking system, including a victim location and structure marking system, such as the ones used by the FEMA National Urban Search and Rescue Response System (NFPA 1006 6.1.3, NFPA 2500
- Understand the process of removing readily accessible victims from structural collapse incidents (NFPA 1006 6.1.4, NFPA 2500 6.2.2)

7

Course Objectives (Cont'd) Describe the procedure for identifying and establishing collapse safety zones (NFPA 2500

- Discuss the need for reconnaissance of the structure(s) and surrounding area (NFPA 1670 6.2.2)
- Identify support functions to the operations and technician level while functioning within the IMS (NFPA 6.1.5, NFPA 2500 6.2.2).



8

Session Objectives

- Demonstrate Knowledge Of Applicable Regulations And Standards
- Understand A Basic Knowledge Of Building Construction As It Relates To Structural Collapse
- Understand The Need For Incident Size-up And Identify **Necessary Components**
- **Identify Safety Concerns Involving Structural Collapse**
- **Demonstrate Knowledge Of Collapse Causes And** Warning Signs.



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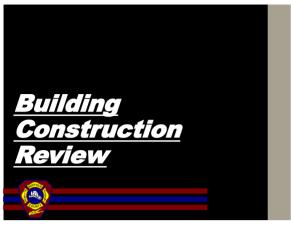




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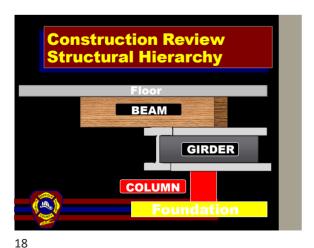


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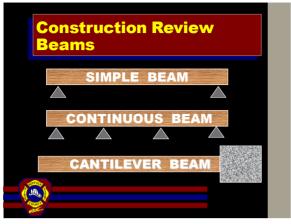


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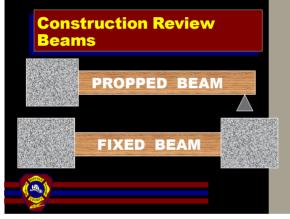


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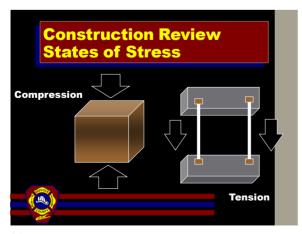
Suffolk County Fire Academy



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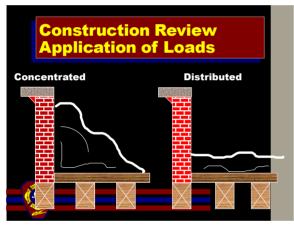


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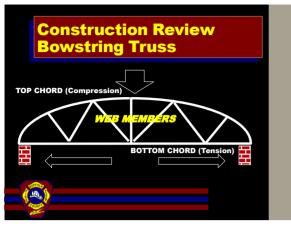




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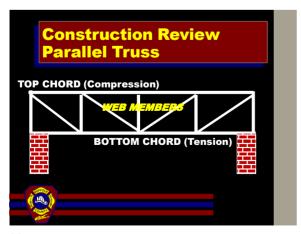


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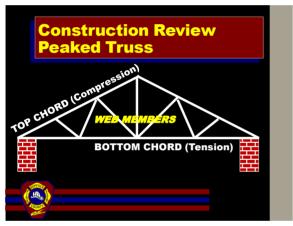


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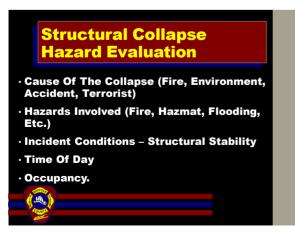


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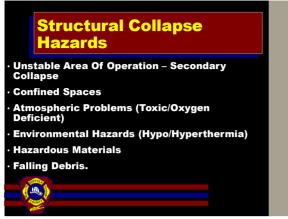


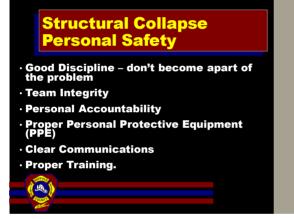


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Survival Rate vs. Time of Extrication	
30 Minutes	99.3%
1 Day	81%
2 Days	36.7%
3 Days	33.7%
4 Days	19%
5 Days	7.4%.

68

Collapse Incident Review	
·Oklahoma City Bombing - 1995	
·World Trade Center – 2001	
·Plasco Building, Iran – 2017	
·Yun Tsui Building, Taiwan – 2018.	
·Surfside Collapse, Miami – 2021	

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Oklahoma City Bombing April 19, 1995 359 people in the building 169 killed (including 19 children) All 169 ultimately recovered, 166 during the rescue effort Last 3 recovered after demolition of the building.

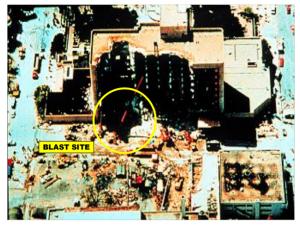
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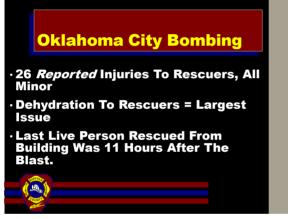


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Oklahoma City Bombing - 161 Deaths Occurred In Federal Building - 2 Deaths Occurred In The Water Resources Building - 4 Deaths Occurred In The Athenian Building - 2 Deaths Occurred In Outside Areas.

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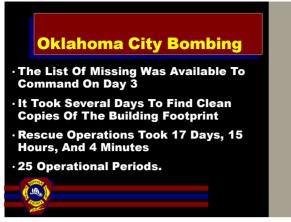


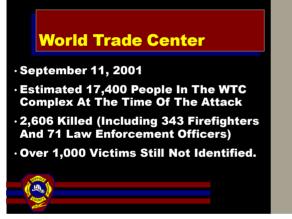


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World Trade Center Debris Scattered Over Almost 17 Acres Difficult To Establish Geographical Markings Hundreds Of Voids Searched Rescue Effort And Search Conducted For Months Magnitude Of Persons Missing Unknown For Several Days.

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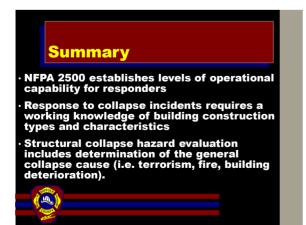


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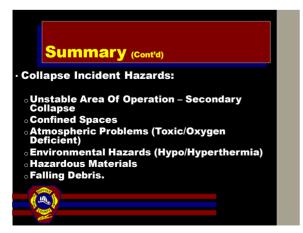


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