Course Objectives	Competencies
1. Introduction of Plans Review The role plans review plays in protecting life and safety of a building occupants and emergency responders The various approaches utilized in plans review programs Relationships between the codes, (Fire, Building, Mechanical, Electrical, Plumbing, Zoning, Conservation, etc.) Understanding the level of authority. 2. Plans Review of Life Safety Issues Means of Egress Occupancy classification and occupant load Construction type Height and Area 3. Site plans review issues related to fire protection Fire Department access Secondary containment Special hazards and exposure Temporary requirements 4. Introduction to plans review of Fire Protection Systems The role of fire protection systems play in protecting the life and welfare of the general public and firefighters Overview of the different types of fire protection systems The role of codes and standards in the fire protection system design 5. Plans review of water supply for fire protection Sources of fire protection water supply Distribution networks Piping Hydrants Utility company interface with the fire department	A. Describe the reasons for performing plan checks , the objectives of a proposed plans review program, the impact Of such a program, and how the program will enhance current fire prevention programs B. Develop a graphic illustration of a model plans review system, identifying components involved in the system including the use of plans review checklists. C. List the methods to monitor and evaluate the effectiveness of code requirements according to applicable standards. D. Determine fire department access, verify appropriate water supply and review general building parameters E. Determine occupancy classification, construction type, calculate occupancy load and the height and area of a building F. Determine the appropriateness of the three components of a buildings egress system (exit access, exit and exit discharge) verify building compartmentation and the proper enclosure of vertical openings. G. Identify special hazards, verify interior finish and establish the proper location for pre-engineered fire extinguishing systems. H. Verify the compliance of a HVAC system, review sources requiring venting and combustion air, verify the proper location of fire dampers, and evaluate a stairwell pressurization system. I. Verify the proper illumination for exit access, the arrangement of exit lighting and perform a life safety evaluation of the egress arrangement of a building. J. Verify the design of a fire alarm and detection system, and an offsite supervisory system for compliance with applicable standards.

Course Objectives	Competencies
6. Plans review of water – based fire suppression systems Properties of water Sprinkler systems Types of sprinklers Foam systems Water mist systems Fire pumps 7. Plans review of non-water based fire suppression systems and portable fire extinguishers Carbon dioxide systems Dry/Wet Chemical Extinguishing systems Clean agent systems Plans review of portable fire extinguishers 8. Plans review of fire alarm systems Types of fire alarm systems Detectors smoke, heat, flame, Audible/visual devices Alarm monitoring 9. Plans review of smoke management systems Identification of smoke management systems Firefighter interface with smoke management systems	