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| **1.7 Performance Based Design for Fire Safety** |
| Level | 5 |
| Duration | Minimum of 90 hours |
| CFPA-E Points | 90 |
| Aim | To provide learners with a detailed understanding of the principles of performance-based design techniques and fire engineering standards relevant to the interpretation of building designs and fire safety solutions developed using these techniques |
| Target Public | Building Control Authority Officers, Fire Authority Officers, Other Inspecting Officers, Consultant Engineers, Fire Engineers |
| Prerequisites | Qualification or suitable experience in mathematics and a good understanding of the concepts of fire |
| Progression | Courses from the CFPA qualifications framework to broaden knowledge  |
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| Learning Outcomes | Upon successful completion of the course learners will be able to: |
|  | Produce responses to plans that demonstrate a comprehensive application of the fundamentals of fire, how fire is initiated, how it grows and the hazards that it generates |
|  | Design ways in which the factors associated with fire can be expressed in a quantitative way |
|  | Generate a detailed review of national standards for fire engineering |
|  | Plan for the practical application of performance-based design methods and techniques including:• Designing and setting objectives – considering national standards and regulations.• Generating success criteria via comparative and risk assessed solutions• Create and compile building design considerations• Generating and using design review• Demonstrate knowledge of quantified analyses• Designing a review of analysis against acceptance / success criteria• Generating, designing and implementing fire safety strategies• Properly formulating management considerations in fire safety strategies |
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| Related Guidelines | 4 F; 13 F; 19 F |
| Assessment  | A minimum of a written examination plus a case study presented in writing or orally |
| Qualifications | DiplomaOptional subtitle «Performance Based Design Reviewer CFPA-E» |