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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 | Diploma  Optional subtitle «Performance Based Design Reviewer CFPA-E» |