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| **1.12 Principles of Fire Safety Engineering** | |
| Level | 3 |
| Duration | Minimum of 30 hours |
| CFPA-E Points | 30 |
| Aim | To provide learners with a basic understanding of the principles of fire safety engineering standards and techniques to enable the interpretation of building designs and fire safety solutions developed using these techniques |
| Target Public | • Building designers - all aspects  • Fire engineers  • Architects  • Construction specialists  • Inspectors |
| Prerequisites | Official technical diploma or degree and CFPA Europe Diploma in Fire Prevention (Technical or Management  cycle) or other advanced course or experience (equivalence will be assessed by a written test) |
| Progression | Courses from the CFPA qualifications framework to broaden knowledge at Level 3 or progress to more in-depth courses at Level 4 |
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| Learning Outcomes | Upon successful completion of the course learners will be able to: |
|  | Select and relate the principal European rules on fire safety engineering in the construction sectors (including EC 89/106 and its interpretative document – if appropriate) |
|  | Appraise and evaluate fire safety equivalence with prescriptive guidance in building design |
|  | Examine the behaviour of fire in compartmented and non-compartmented structures  Relate existing guidance to these behaviours |
|  | Create, propose, evaluate and prioritise adequate safety measures for the recognised risks by a number of criteria including cost-effectiveness |
|  | Organise and integrate risk management as a company management tool |
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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 | Certificate |