

Certificate in Fire Studies

9-day Course

Introduction

The Certificate in Fire Studies introduces delegates to the processes involved in the creation and maintenance of a fire safe environment. The certificate is spread over nine days and can be taken as individual days or as the whole certificate programme. Note: days 2 + 3 and days 4 + 5 must be taken together.

Programme

Day 1 Legislative Procedures

- Building Regulations
- Fire Precautions Act and certification
- Fire Safety Order
- Risk assessment and the workplace fire regulations
- Occupied buildings
- Division of responsibilities
- Insurance requirements
- Legal requirements
- Building Regulations
- Guidance – Approved Documents

Day 2 Fire Science, Process and Components

- Principles of fire behaviour
- Understanding of fire development
- Triangle of fire
- Causes of ignition
- Flashover
- Fire growth

Day 3 Fire Science, Process and Components

- Human behaviour
- Influences in behaviour and the importance of human behaviour
- Behaviour of people and materials when exposed to fire
- Services within buildings and their contribution to fire safety
- Materials used and their identification, physical properties and the significance of these in respect of fire safety

Day 4 Means of Escape, Criteria Delivery and Assessment

- Part B1 – Means of escape in case of fire

Day 5 Approved Document B

- Fire Safety: a review of current legislation highlighting the intent and performance standards required, including consultation guidance
- Fire Safety Review: Dwelling houses and conversions. An investigation of various schemes and the application of new Approved Document B Volume1. This session will apply the guidance and consider options that may be proposed for varying the provisions whilst maintaining safety
- Flats & Maisonettes: a review of examples requiring analysis, calculations and application of Part B, reviewing layouts, fire calculations and application of Part B, reviewing layouts, fire resistance, means of escape and options to consider alternative approaches to fire safety
- The application of Part B Volume 2 to a range of buildings (other than dwellings), analysing the requirements/provisions of Part B and areas for varying the provisions within the bounds of reasonableness and adequacy
- A review of active systems including suppression, detection, alarms and lighting

Day 6 Structural Fire Protection – Materials and Passive Protection

- Structural fire protection including fire resistance
- Fire properties of structural materials
- Testing
- Structural fire protection

Day 7 Active Fire Measures – Smoke, Detection and Control

- Smoke control
- Combustible products
- Smoke toxicity
- Visibility
- Smoke movement
- Calculation of smoke production
- Choice of smoke control systems available
- Design of a simple smoke control system
- Smoke control in the storey of fire origin
- Smoke ventilation within multi-storey spaces
- Depressurisation/smoke ventilation hybrid designs

Day 8 Active Fire Measures – Extinguishment

- Mechanisms involved in the extinction of fire
- Techniques available and their application
- Sprinkler systems
- Gaseous systems
- Foam systems
- Passive fire protection

Day 9 Fire Safety – Management, Audit and Risk Assessment

- An introduction to fire engineering
- Best Practice in fire safety
- Workplace policies and procedures
- Fire safety plans
- Auditing and monitoring requirements
- PAS 79
- Risks within particular scenarios

DATES

Day 1	06 July 2010	HQ Northampton
Day 2 + 3	04-05 October 2010	HQ Northampton
Day 4 + 5	09-10 November 2010	HQ Northampton
Day 6	08 December 2010	HQ Northampton
Day 7	12 January 2011	HQ Northampton
Day 8	09 February 2011	HQ Northampton
Day 9	09 March 2011	HQ Northampton

PRICE

£1500 + VAT Full Course
£450 Member Discount
£175 + VAT Per Day
£50 Member Discount