

## 3-day Course

### Design, Installation, Commissioning and Maintenance

The protection of life and property is understandably key in the design, installation, commissioning and maintenance of Fire Defence Systems. This programme examines in detail the elements of Fire Detection and Alarm Systems. From design to maintenance, the process of Fire Alarm Systems is examined with consideration given to relevant legislation, British Standards and good practice.



### Programme Aims

To provide detailed information on all aspects of Fire Detection and Alarm Systems and to ensure delegates are aware of issues concerning design, installation, commissioning and maintenance of fire systems.

### Programme

#### Day 1 Fire Alarm Design – Unit 1

- Legislation, terminology and the need for a fire alarm system
- Categories of life and property systems
- Documentation and variations to BS 5839
- Terminology of system components, monitoring for faults and the critical signal path
- Zone site, integrity and circuit constraints
- Fire alarm devices and dBA recommendations
- Siting manual call points
- Types of fire detector and the choices available
- Detector siting and detector coverage
- False alarm management
- Certification of fire alarms systems

#### Day 2 Fire Alarm Design – Unit 1

- Principles of fire detection
- Radio system recommendations
- Maximising the coverage per detector
- Advanced detector positioning and spacing
- Detector spacing allowing for beams
- Detectors for pitched roofs
- Optical beam detector positioning
- Positioning the control and indicating equipment
- Fire alarm device introduction
- Sound pressure in dBA
- Attenuation of sound with distance
- Detailed sound calculations in quiet and in noisy environments

#### Day 3 Installation, Commissioning and Maintenance of Fire Systems

- Cable calculations taking into account voltage drop considerations
- Wiring recommendations, power supply and battery requirements
- Competent persons for installation, commissioning and maintenance
- Installing of circuits for correct monitoring
- Optical beam detector installation and duct detection set up
- Wiring and fire resistance recommendations
- Commissioning, knowledge, inspection and testing requirements
- Documentation, certification, handover and user acceptance
- Fire alarm maintenance and the law
- Daily and weekly inspections and testing
- Periodic inspections and testing
- Testing components
- Non-routine attention

### Note

Delegates who have already attended the Unit 1 FIA course will be exempt from Day 1.

Delegates will be required to undertake assessments throughout the programme. Successful achievement of the unit tests entitles candidates to receive the ABE/FIA Certificate in Fire Detection & Alarm Systems.

### DATES

18-20 May 2010	HQ Northampton
14-16 September 2010	HQ Northampton
16-18 November 2010	HQ Northampton

### PRICE

Day 1	£225 + VAT
Day 2 + 3	£425 + VAT
Full Diploma	£525 + VAT
10% Training Affiliate Discount	