Active Fire Protection Systems

Course Aim

This 2-day course gives delegates the knowledge and understanding of in situ fire fighting systems, as well as how they work and what is most appropriate for the situation. Delegates will also develop a thorough knowledge of a range of fire suppression systems and their operations. This course covers the current and draft Standards and all associated documentation of Active Fire Protection Systems.

Who Should Attend?

This course is suited for delegates in or looking to have a career in one of the following roles;

- Fixed extinguishing system installers
- Facilities managers and maintainers
- Consultants
- Designers
- Insurers
- Responsible Person/Duty Holder

Course Duration

This is a 2 day course.

Maximum Delegates

Maximum attendees: 12 delegates.

Agenda

- Extinguishing systems including chemical, inert gas, carbon dioxide and watermist (high and low pressure)
- Detection systems and interface to fire alarm and building management systems
- Pressure relief and extraction systems
- Types of design (local application, total flood)
- Design guidance
- Maintenance guidance
- Coverage of over 26 current and draft British and International Standards, Codes of Practice and associated literature

DAY 1

Part 1 The principles of fire – what it is, how it starts and spreads and the types of fire

Part 2 Prevention, control, suppression and extinguishing of fires and how to select the relevant system(s) – details all the available fire extinguishing systems used and how to select based on the application

Part 3 How extinguishing systems work

Part 4 Selection of extinguishing systems (where they are best suited) – in terms of application local to the risk, or throughout the entire volume

Part 5 System delivery types & components

Certification

Upon successful completion of the course and passing the exam, delegates will receive an in-house FIA certificate in a digital format.

DAY 2

Part 6 System design – key considerations in the design including design concentrations, discharge times, hydraulic flow calculations, room integrity, etc.)

Part 7 Safety, toxicological factors & Environment

Part 8 Fire detection and triggering – types of detector, the principle of triggering, ancillary components

Part 9 Interface with building and building management – elements relating to construction, pressure relief, extract and transmission of alarms

Part 10 Commissioning, maintenance & additional factors – training, testing actuators, checking interfaces, security & tampering, documentation, periodic inspection, end of system life

NOTE: This course does not cover the topic of explosion protection.