

H S E

HEALTH

SAFETY

ENVIRONMENT



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Storage Tank Fire Hazard Management

Duration: 5 Days



Introduction:

This course is designed to provide delegates with an in-depth knowledge of all aspects of assessing and controlling fire hazards in flammable liquid storage tanks and associated product transfer facilities, thus allowing them to develop, implement or audit appropriate, cost effective Fire Hazard Management policies. Emphasis will also be placed on the practical issues

regarding fire response options, preplanning for major fire incidents and maintaining response capability. The course will cover all aspects ranging from tank types and construction to tank fire scenarios, fire prevention measures, incident detection and fire protection systems. Particular attention will be given to the design, implementation and ongoing assurance of firefighting foam application by systems or mobile equipment for flammable liquid storage and transfer facilities.

Who Should Attend?

Team Leaders, Managers, Superintendents, Line Managers, General Supervisors, Foremen, Supervisors, Project Managers, Fire Officers, Senior Fire Officer, Chief Fire Officers, Senior Fire & Equipment Personnel, Fire Coordinators, Fire Executives & Industry Personnel, Fire Responders, Fire Engineers Loss Prevention Engineers, Control Center Operators and Supervisors, Emergency Personnel, Emergency Dispatchers, Security Personnel and CCTV Operators, HSE Officers, HSE Engineers & Personnel, HSE Professionals, Emergency Response Team Members, HSE Managers and Auditors, HSE Professionals, Incident Control Point (Forward Control) Team Members, Inspectors, Advisors, Auditors, Laboratory Personnel, Process Control Engineers and Technicians, Process Control Designers

Course Objectives:

By the end of this course delegates will be able to:

- Obtain in-depth knowledge to develop, implement or audit appropriate, cost effective Fire Hazard Management policies
- Know about storage tanks fire hazard management process and principles
- Learn about storage tank fire protection design
- Identify risk reduction options for storage tanks and associated facilities
- Understand the fire and explosion types and effects associated with storage tanks
- Know the preplanning and exercising response for tank fires
- Understand the specification of major incident response units (MIRU)

Course Outline:

- Major tank fire incident case study
- Fire hazard management process and principles
- Legislative trends and safety cases
- Fire and explosion types and effects associated with storage tanks
- Atmospheric storage tanks
- Pressurized storage tanks
- Risk reduction options for storage tanks and associated facilities
- Incident detection
- Water spray systems
- Foam systems for storage tanks
- Portable and mobile equipment issues
- Application rates
- Design standards and examples
- Proportioning systems
- Foam concentrate selection and
- Procurement issues
- Foam storage
- System testing
- Monitor application
- Environmental issues
- Storage tank fire protection design examples

- The UK Buncefield incident and other tank related events
- Buncefield process safety leadership group recommendations review
- Tank fire incidents from history
- Case studies on recent major incidents
- Preplanning and exercising response for tank fires
- Specification of major incident response units (MIRU)
- The LASTFIRE Project