HSE 2020

BTS
Training & Consultancy

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Industrial Firefighting Key Principles

Duration: 5 Days

Introduction:

The course will introduce the key principles of safety, security and fire management, prevention and control at a primary management level and make delegates aware of and understand the vast range of topics involved in fire, safety and security by reviewing application of risk management to the three elements of fire, safety and security, what needs to be considered in managing fire, safety and security and why it is important that the three elements are managed in a holistic and coordinated manner. Course highlights are:

- Review of operations, maintenance, engineering, inspection, fire safety and security
- Examination of work permits, emergency plans, plant modification controls, emergency shutdown testing and engineering standards

- Assessment of standards of design and construction, layout, process controls, plant condition and housekeeping
- On-site inspection of process units, tankage, utilities, control room, jetty/truck/rail loading, firefighting equipment and security systems

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 and Systems Engineers, Instrumentation and Control System Engineers, Plant Engineers, Maintenance Personnel

Course Objectives:

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

- Understand the moral, business and possible legal reasons for putting fire, safety and security as a core activity
- Understand the main concepts of fire, safety and security management
- Obtain a thorough understanding of risk management and how it can be applied to fire, safety and security management
- Know the effectiveness and limitations of various controls
- Understand the hierarchy of control

- Understand what a management system is and how they are key to management of fire, safety and security
- Obtain an understanding of the control measures that can be used in the management of fire, safety and security
- Understand how to encourage continuous improvement in the management of fire, safety and security

Course Outline:

Overview of the Concepts of Fire, Safety & Security Management

- Fire and safety procedures whilst on the course
- Basic fire awareness
- The fire triangle, fire travel
- Classification of fires - flashpoint, self-ignition temperature, and products of combustion
- Reasons for managing fire, safety and security
- Discuss why managing fire, safety and security makes good business sense
- Overview of the concepts of risk management and how they can be used as a tool in the management of fire, safety and security
- What a management system is

Fire Management in High Risk Environments

- Nature and causes of fire
- Arson and terrorism
- The fire hazards and safe handling of LPG and other flammable products
- Fire spread and its control
- The effects of water on enclosed spaces (steam, humidity, reduced visibility and stability)
- Fire detection and prevention
- Fixed installations, Co2, sprinkler, drencher, inert gas, foam, dry powder

Fire Management, Insight into the Principles

- Fire safety engineering
- The role of the fire authority
- Passive fire safety principles and practice
- Fire risk management and control
- Current and proposed best practice
- Practical fire-fighting- fire blanket, extinguishers, dry powder, foam, Co2, water
- Fire Parties and Muster Groups
- Psychology of respiration, CABA and BA control
- Search and rescue techniques
- Exercises in light smoke and live fire conditions

Fire Management: Prevention & Protection

- Detection and alarm systems
- Emergency lighting systems
- Smoke movement and control
- Sprinklers
- Means of escape
- Portable firefighting equipment
- Fire risk assessment
- Design exercise

Common Hazard

- Fire
- Electricity
- Work equipment
- Movement of people
- Vehicles
- Poor housekeeping
- Manual handling
- Display screen equipment
- Noise
- Chemicals and substances