

H S E

HEALTH

SAFETY

ENVIRONMENT



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Advanced Security Systems & Techniques

Duration: 5 Days

Introduction:



Do you as a manager fully know what security measures and emergency planning processes you have in place? In a management or supervisory role you need to convince your clients, colleagues and staff you have the expertise and these procedures in place. This program

provides the essential abilities with a detailed concentration on managing a controlled exercise. The benefit of this role is critical to managers, supervisors and administrators who may have to proactively prepare for and possibly manage the unexpected.

Who Should Attend?

Security Directors and Managers, Security Supervisors, Security Officers, Facility Supervisors, Facility Officers, Facilities Directors and Managers, Health and Safety, Fire personnel, Fire Managers, HSE Officers, Security Personnel and CCTV Operators, 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, 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, Maintenance Engineers and Supervisors, Electrical and Instrumentation Supervisors and Technicians, Procurement and Supply Chain Managers, Engineers and Maintenance Personnel, HR and Administrative Supervisors responsible for security.

Course Objectives:

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

- Effectively manage the health and safety process
- Complete supervised exercises in health and safety documentation development
- Provide expertise to complete and manage risks assessment
- Know how to investigate and analyze safety statistics
- Monitor safety process and undertake audits

Course Outline:

Hazards in Various Industries

- Lessons from past accidents
- History of fires & explosions
- Hazards in process systems, separation, liquefaction, etc.
- Hazards in compressor stations & pipeline transportation
- Consequences of spills & leaks

- Major effects from chemical accidents
- Types of fires & explosions
- Toxic gas dispersion

Working in Hazardous Areas: Basic Safety Procedures:

- Workplace hazards & component inspections
- Safe working practices
- Identification of flammable & combustible material/ chemical hazards
 - Protocol for identifying hazardous material
 - Use of permits and procedures in critical areas
 - Devising procedures & checklists to achieve a safe system of working with chemicals/ equipment
 - Basic first aid, assessment of breathing, control of shock, burns etc.

Advanced Safety Systems – Techniques:

- Hazard identification process
- Results from hazard identification procedures
- Goal of hazard identification
- Necessity for hazard identification & procedure
- Risk assessment procedure
- Hazardous area classification in industrial plants
- Selection of appropriate technique
- Identification of critical equipment
- Safety system performance considerations

Hazard Prevention & Control Measures:

- Safety inspection and auditing incident reporting
- Importance of accident investigation & reporting
- Failure sequences
- Classification of causes
- Accident prevention
- Elements of incident investigation
- Reporting for near-misses & accidents
- Handling spills/ leaks of chemicals
- Actions required

- Handling gas leaks
- Prevention & mitigation for fire & explosion hazards
- Emergency responses
- Maintenance of equipment in hazardous areas
- Safety availability & reliability
- Protection of equipment
- Safety of electrical equipment

Emergency Response Management

- Identifying the key components of a safety management system
- Emergency control
- Team and personnel training
- Resources and organization of the team and support facilities
- Investigation
- Relevant key elements that make up an integrated HSE management system
- Planning for efficient emergency response and crisis management
- Establishing a major accident prevention policy
- Incident develop or crisis
- Structuring your organization's approach to crisis and emergency management
- The warning of the public in an emergency
- Justifying the role of industrial emergency response resources
- Methodology, risk based scenario reviews
- Alternatives conclusions/findings
- Responding to the emergency
- Activating emergency response plans
- Undertaking crucial decision
- Communications and problems encountered to bring the situation to a speedy conclusion
- Contracting out emergency process
- Choosing the right contractor
- Back up resources required

Loss Prevention Policies & Procedures:

- Risk reduction & control program
- Hierarchy of controls
- Inherently safer design strategies: minimize, substitute, moderate, simplify
- Industrial examples
- Safety management systems

- Safety a new perspective
- Risk based safety culture
- Measuring safety culture
- System safety and role of communication
- Adoption of international standards