Emergency Response Planning
Learn Strategies To Manage A Multi-Hazard Crisis
And Ensure Your Organisation Is Prepared For The Worst

On This Course, You Will:

1. **Know** how to prepare, write and test emergency plans that are appropriate to the risk that your organisation is exposed to

2. **Learn** how to identify hazards, investigate incidents and prepare a comprehensive hazard register

3. **Know** how your organisation should respond to reports of an emergency situation

4. **Establish** an incident command system and ensure your communication lines between your team and external support groups are perfect

5. **Ensure** you have the right resources in the right place to deal with the identified hazards

6. **Test** your emergency plans through simulated scenarios and experience the pressures in decision-making by taking part in an emergency response exercise

7. **Assess** the arrangements you have in place for disaster recovery

1 – 4 May 2016
Dusit Thani Hotel, Dubai, UAE

30 October – 2 November 2016
Kempinski Hotel, Mall of the Emirates, Dubai, UAE
Course Timings Registration will be at 07:30 on Day One of the course. The course will commence at 08:00 and conclude at 14:30 with lunch. There will be refreshment breaks at approximately 10:30 and 12:30.

Course Overview
This course will give you a greater understanding of the emergency response planning process. It is ideal for middle to senior managers or new employees who may, in the course of their normal duties, be called upon to take up a position in their company’s emergency response organisation. Alternatively, the course would suit anyone within the company who wishes to understand the principles of emergency response as it applies to their industry.

This course will:
• Help you to understand the principles of emergency response procedures relevant to your industry
• Review the roles and responsibilities held by team and individual members of your emergency response organisation
• Consider contact, organisational interface responsibilities and communication requirements within your emergency response organisation
• Provide you with an understanding of:
  - Writing emergency checklists and contingency plans
  - Customising the Incident Command System (ICS)
  - Hazard identification
  - Basic risk assessment
  - Design of bow tie diagrams to show threats, barriers, top events, mitigation, consequences and lag lead and lag.

Course Methodology
This interactive course will be taught through a combination of theory and practical sessions, supplemented by workshop sessions, exercises and videos.

Course Outline

Day One
Identify Hazards

Module 1: Producing A Framework For Managing Crisis
• Control of major accidents and hazards–COMAH
• Preparedness, organisation, response, recovery, training
• The issues an emergency plan must address

Video: Megacities/GOM Spill/Japan Nuclear Disaster

Case Study: Impact Of A Major Incident

Module 2: Identifying And Managing Hazards
• Identifying hazards your plan must address
• Managing hazards – extending the hazard register
• Chemical, physical, mechanical, biological, psychosocial, cyber attack

Case Studies: Pipeline Fires And Explosion ‘Walk The Walk’ In A Hazardous Oil-Field

Module 3: Fires And Explosions
• Characteristics of fire
• The nature of explosions

Case Study: Hydrocarbon And Dust Explosions

• Gas, dust, liquid fuel types of fire and explosion

Video: Danger: Air, Fire And Explosion Hazards/Bleve Mexico City

Module 4: Total Fire Hazard Management
• Principles of total hazard management (Fire-heath-environment)
• Concept selection, detail design, operation and modification
• Hazard – type, identification, characteristics
• Hazard management and intrinsic safety.

Case Study: Grangemouth Hydrocracker Fire

Exercise 1: Dawn Patrol At Dyce Airport (Planning And Walking Through An ER Exercise)

Module 5: Risk And Vulnerability
• Basic concepts of risk and vulnerability
• Simple methods of risk estimation
• Overall risk assessment
• Hospital ER risk assessment
• Business continuity planning

Workshop: Communication Issues During Emergencies

Video: Who’s Risk Is It Anyway/Steps In Risk Assessment

Module 6: Natural And Environmental Hazards

Case Study: Seismic And Tsunami – Japan

• Desert storms and regional hurricane threats
• Lightning
• Flood and landslide
• Heat wave video extracts
• Earthquakes and tsunami

Video: Hurricane Wilma

Exercise 2: Tropical Storm

Day Two
Organising For Emergencies

Module 7: Route To Successful Emergency Response
• Aims of Emergency Response
• Mass casualty incidents
• A mass casualty system
• Developing an ER hierarchy

Video: BP Texas City Refinery Explosion

Module 8: The Emergency Organisation
• Roles and responsibilities
• Emergency resources
• Support groups – mutual aid emergency services
• Emergency preparedness

Video: Piper Alpha Analysis – COMAH Regulations MAPP And Safety Management Systems

Case Study: Piper Alpha Incident Analysis

Module 9: Emergency Response Teams
• On scene commander’s team
• Incident commander’s team
• Business support team
• Corporate crisis management team
• Internal/external personnel
• Local government/authority

Video: Consequences Of Major Body Burns – And For What?

Module 10: Security And Emergency Procedures
• Overviews of emergency security operations
• Hazards, scenario, strategy, tactics, checklists
• Mobilisation: M.E.T.H.A.N.E. acronym
• Checklists for emergency team and individuals
• Producing the incident report throughout the incident

Case Study: Gulf Of Mexico Incident Analysis

Video: BP Texas Fire Analysis

Exercise 3: Shamal – An Airport Storage Tank Fire
Module 11: Incident Escalation
- Process visualisation
  - Case Study: Milford Haven Storage Tank Boilover
  - Video: ADCO H2S Incident UAE

Module 12: Emergency Response Exercises
- Types of exercises
- Developing exercises
- Setting exercise objectives
- Audit and evaluation
- Progression by stages
  - Exercise 4: Solent Inferno – Oil Tanker Fire At Sea
  - Video: Agean Sean Coastline Ocean Fire

Day Three
Emergency Response Planning – Crisis Command And Control

Module 13: Incident Command Hierarchy
- ICS forward control teams
- Incident management and control team
- Emergency support teams
- Crisis management team
- Incident action plans
- Long term operations for thousands of responders
  - Video: Sour Gas – The Incident Command System

Module 14: Incident Command System Principles
- Eight essential principles
- Key roles within the organisation
- Incident size-up and communication strategy
- The ICS Planning Cycle and time out to think
- Transfer of command and multi-agency operations
  - Video: Taking Control At A Major Incident ICS 1. 9/11 Response Part I

Module 15: Managing Critical Incidents
- Incident control, a six-step response
- A modular command system approach
- Mobilisation and taking control
- Scenario escalation
- Incident shutdown
  - Case Study: Singapore Storage Tank Fire
  - Exercise 5: Firebrand – Road Traffic Accident At An Industrial Complex
  - Video: On Scene Response ICS 2. 9/11 Response Part II

Module 16: Forward Control Tactics
- Staging the incident
- Formulating overall strategy
- General principles for attack, hold ground and retreat
- Resource management
  - Case Study: Feyzin Gas Sampling, Series Of Explosions
  - Video: Crude Oil Tank Fire Milford Haven
  - Exercise 6: Sir Bani Yas Channel Vessel Collision In Restricted Channel

Module 17: Taking Control
- Incident size-up
- Dynamic risk assessment
- Scenario strategy
- Incident escalation
- Incident shutdown
  - Case Study: Glenpool Gas Tank Fire and Explosion
  - Video: ICS 3 Crisis Management

Module 18: Steps In Emergency Planning
- Writing the plan
- Assessing risks and hazards
- Team member tasks
- Types of emergency plans
- Common pitfalls in emergency planning

Module 19: Emergency Response Centre Design
- Establishing design requirements
- Large and small ER control room design
- Corporate design requirements
- Support facilities design
- ER communication systems

Module 20: Software For Emergencies
- Mobilisation and tracking systems – GPS
- Command control and communication systems
- Geographic Information Systems – GIS
- Command and control training and simulation
- Extending the hazard register into a database

Module 21: HR Issues And Communications
- Disaster recovery and business continuity
- Dealing with HR
- Dealing with the media
- Press releases
  - Video: Managing The Media

Module 22: Emergency Facilities Review
- Emergency response planning aims and objectives
- The top five things to think about
- Emergency response plans
- Key incident management activities
  - Video: Mission Critical Communications

Module 23: Bow Tie Diagrams
- Simple Bow Tie diagrams - cause – event - impact
- Bow Tie scenario studies in UAE
- Applying Bow Tie diagrams to risk management
- Using Bow Tie diagrams, preventative, detective
  - Video: Bow Tie Diagrams For Risk Management
  - Exercise 8: What Red Button?

Module 24: Bow Tie Diagrams
- Emergency response planning aims and objectives
- The top five things to think about
- Emergency response plans
- Key incident management activities
  - Video: Mission Critical Communications

Meet Your Expert Course Director
Malcolm Phillips
BSc., C.Eng., F’IEE, MBCS, FRI
Malcolm has had a diverse career in the petrochemical industry and brings tremendous experience and expertise to his teaching. He was Head of Safety Systems Development for BP Exploration where he developed its health, safety, environmental, quality assurance and security systems at Aberdeen. He also project managed a global multi-media environmental protection and planning system for BP’s chief executive crisis management centre. Malcolm has produced control and instrumentation systems specifications and other engineering functions for BP, ADMA OPCO and Vosper Thornycroft. He was also a lecturer on offshore engineering at Robert Gordon University. He is now Technical Director of the UK based consultancy firm, ACM.
Emergency Response Planning

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FIVE WAYS TO REGISTER

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FIVE WAYS TO REGISTER

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Course

Course Fee Before 14 February 2016
Course Fee Before 6 March 2016
Final Fee

Emergency Response Planning
1 – 4 May 2016 (BC6129)
US$ 3,995
US$ 4,595
US$ 4,795

Emergency Response Planning
30 October – 2 November 2016 (BC6259)
US$ 3,995
US$ 4,595
US$ 4,795

DELEGATE DETAILS

First Name:     Surname:
Job Title:       
Company:       
Address:       
Postal Code:  Country:     City:
Tel:            Mobile:             Fax:
Email:       

PAYMENTS

A confirmation letter and invoice will be sent upon receipt of your registration. Please note that full payment must be received prior to the event. Only those delegates whose fees have been paid in full will be admitted to the event.

AVOID VISA DELAYS – BOOK NOW

Delegates requiring visas should contact the hotel they wish to stay at directly, as soon as possible. Visas for non-GCC nationals may take several weeks to process.

CANCELLATION

If you are unable to attend, a substitute delegate will be welcome in your place. Registrations cancelled more than 7 days before the Event are subject to a 50% administration charge. Registration fees for registrations cancelled 7 days or less before the Event must be paid in full. Substitutions are welcome at any time.

All registrations are subject to acceptance by Informa which will be confirmed to you in writing. Due to unforeseen circumstances, Informa reserves the right to cancel the course, change the programme, alter the venue, speakers or topics.

WEB BC6129/BC6259

EVENT VENUE

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ACCOMMODATION DETAILS

We highly recommend you secure your room reservation at the earliest to avoid last minute inconvenience. You can contact the Hospitality Desk for assistance on Tel: +971 4 407 2693  Fax: +971 4 407 2517
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