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

Led by
Malcolm Phillips

22 – 25 April 2018*
Sheraton Hotel, Mall of the Emirates, Dubai, UAE

1 – 4 October 2018*
The Conrad Hotel, Dubai, UAE

Save up to $1000 by booking early!
Emergency Response Planning

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Course Timings
Registration will be at 08:00 on Day One of the course. The course will commence at 08:30 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

Video: Emergency Response Guidebook (ERG)

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

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

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?

Exercise 3: Shamal – An Airport Storage Tank Fire

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

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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.

Day Four  
Emergency Response Planning – Emergency Response Centres

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

Discussion: Your Worst Case Scenarios/BP GOM/Japan Incident Escalation/Arizona ERC Operations

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

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: ADCO H2S Incident UAE

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

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

Module 17: Taking Control  
- Incident size-up  
- Dynamic risk assessment  
- Scenario strategy  
- Incident escalation  
- Incident shutdown

Case Study: Glenpool Gas Tank Fire and Explosion

Exercise 6: Sir Bani Yas Channel Vessel Collision In Restricted Channel

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

Video: ICS 3 Crisis Management
## Emergency Response Planning

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### Course Fee

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### FIVE WAYS TO REGISTER

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### CUSTOMISED TRAINING SOLUTIONS

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### EVENT VENUE

Sheraton Hotel, Mall of the Emirates, Dubai, UAE  
The Conrad Hotel, Dubai, UAE

### 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  
- Email: hospitality@informa.com

### 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.

### CANCELLATION

- If you are unable to attend, a replacement delegate will be welcomed in your place. If you cancel your registration 57 days or more before the event, you will receive a refund minus a 10% cancellation fee (plus VAT where applicable). Cancellation after 56 days before the event or if you fail to attend the event will be 100% payable. All cancellations must be sent by email to register-mea@informa.com marked for the attention of Customer Services Cancellation.
- All registrations are subject to acceptance by Informa Middle East 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, speaker or topics.
- For full details, please visit www.informa-mea.com/terms-and-conditions-for-delegates

### DELEGATE DETAILS

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Pricing excludes 5% VAT, which will be charged where applicable.