

Organiser Main Address:

Advantica Ltd
Holywell Park
New Ashby Road
Loughborough
Leicestershire
LE11 3GR

Course Contact:

David Cole

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Hazard Awareness - Spadeadam

Trainers/Speakers: Mike Johnson, John Evans, Barbara Lowesmith, Dr Phil Cleaver

Aims

To provide delegates with an awareness of the potential hazards associated with releases of flammable hydrocarbon gases and liquids, through a combination of practical demonstration and illustrated talks.

Content**Topics:**

- Dispersion and Accumulation
 - Potential causes and Consequences
 - Nature of Release – Low or High momentum, liquid two or gas
 - Gas Dispersion and Accumulation
 - Liquid Spreading and Containment, Wind and confinement
 - Effects of Ventilation
 - Jet Dispersion
 - Effects of obstacles and confinement
 - Model Calculations for dispersion
- Liquid Spread
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 - Model Calculations for liquid spread
 - Dense Gas Dispersion
- Fire Hazards
 - Jet Fires / High Pressure releases of gas and or liquid
 - Fuel Types
 - Mitigation of Jet Fires
 - Main Factors
 - Effects of thermal radiation and Flame contact on structural members, Vessels and pipes, potential BLEVE's
 - Structural Responses
 - Demonstration of Jet Fires
 - Linkage of spillage of liquids to pool fires
 - Difference between bunded and non-bunded fires
 - Tank Fires
 - Main Factors affecting consequences
 - Mitigation of Pool fires
 - Demonstration of diesel pool fire
 - Demonstration of Methanol pool fire

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Content

- Explosions
 - Important factors
 - Safety systems
 - Effect of congestion and confinement
 - Control and mitigation of explosions
 - Modelling explosions
 - Effect of explosions
 - Structural response to explosions
 - Effects on panels, transfer of load to other structures
 - Generation of missiles
 - Demonstration of confined explosion
- Miscellaneous Hazards
 - LNG, BLEVE's from pressurised liquid storage, fireballs, flash fires & propagating fractures in transmission pipelines

Additional information:

The course content can be tailored to audience requirements in order to illustrate the hazards of particular interest. Similarly the balance between explaining the underlying behaviour, illustrative examples and discussing methods of mitigation can be adjusted to meet the needs of the attendees.

Target Audience

A practical course for Operators, Managers and Risk Management specialists in the Oil and Gas industry. Operational personnel from onshore petrochemical sites, offshore oil & gas platforms, Emergency Response teams and services, Safety Managers, Hazard awareness engineers.

Duration

2 days. Combination of illustrated talks with discussion and practical demonstrations (safety equipment will be provided for attendees)

Certification

All delegates will receive an Advantica Certificate on completion.

Costs

£975 + VAT

Dates and Location

29th & 30th October 2007, Advantica Ltd, Spadeadam Test Facility, Cumbria.