

## Application Form

Please complete and return the form to the address below

Name:

Job Title:

Address:

Email:

Telephone:

Course Date:

Method of Payment for Course:  Cheque (Made payable to GL)  Company Order (Registration is not possible without payment.)

Please see our website for the current course costs

[www.gl-group.com/spadeadam](http://www.gl-group.com/spadeadam)

Contact us for details of local hotel preferential rates.  
(Attendees to book and settle own bill directly with hotel)

GL Spadeadam Test Site, MOD Range 5, Gilsland, Brampton,  
Cumbria, CA8 7AU, United Kingdom.

### GL Industrial Services

Germanischer Lloyd Industrial Services GmbH

Head Office

Steinhöft 9, 20459 Hamburg, Germany

Phone: +49 40 36149-777

Fax: +49 40 36149-1781

[oilandgas@gl-group.com](mailto:oilandgas@gl-group.com)

GL Spadeadam Test Site

MOD Range 5, Gilsland

Brampton, Cumbria

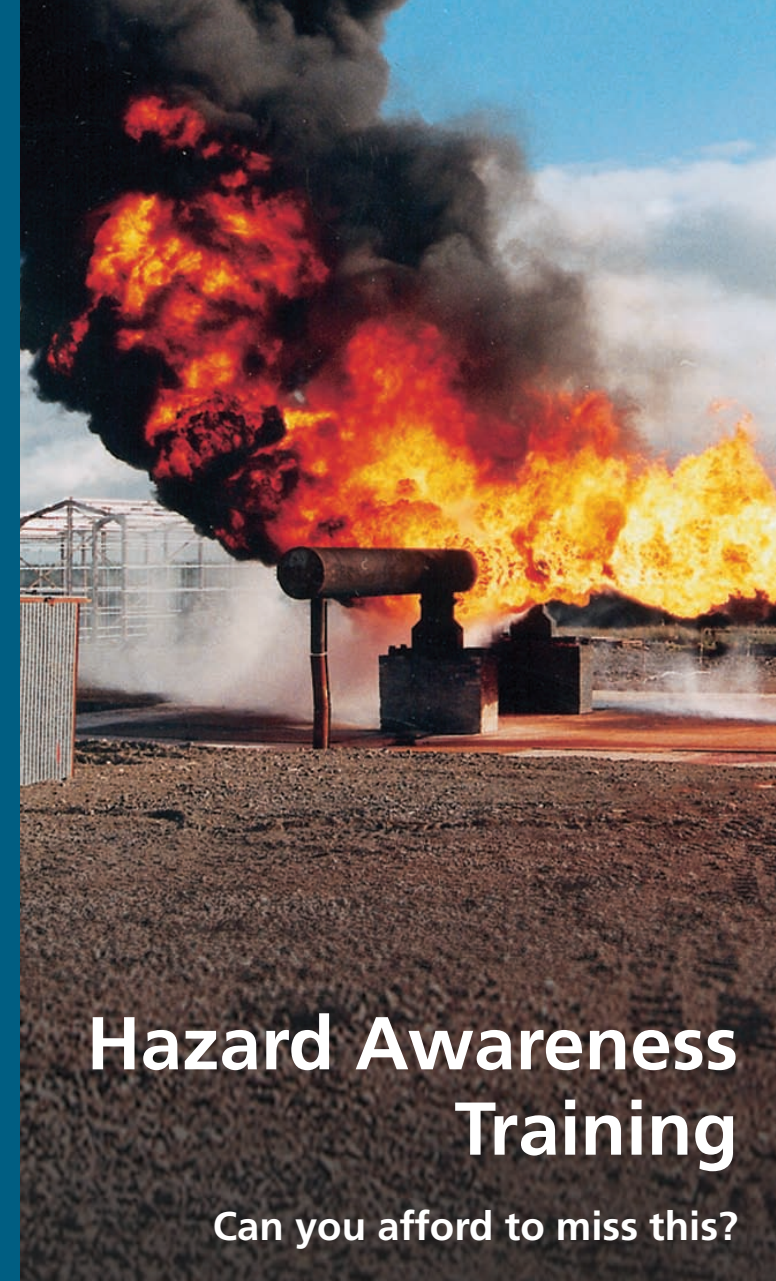
CA8 7AU, United Kingdom

Phone: +44 1697 747404

Fax: +44 1697 747574

[spadeadam@gl-group.com](mailto:spadeadam@gl-group.com)

[www.gl-group.com/spadeadam](http://www.gl-group.com/spadeadam)



# Hazard Awareness Training

Can you afford to miss this?

The GL Group (including the companies listed above) does not warrant or assume any kind of liability for the up-to-date nature, accuracy, completeness, or quality of the information provided. Liability claims against any member of the GL Group in relation to any loss or damage arising out of or in connection with the use or non-use of information provided, including the use of incorrect or incomplete information, are excluded to the fullest extent permissible by law.

All offers are subject to alteration and are non-binding. Each GL Group member expressly reserves the right without notice to change, supplement, or delete parts of the pages or the entire offer or to stop the publication temporarily or definitively.

## GL Spadeadam Test Site

The Spadeadam Test Site is a unique facility carrying out research and technical service work for the oil and gas, process and energy industries, construction industries as well as government agencies.

Spadeadam is a world leading test centre where full scale experiments of a potentially hazardous nature can be undertaken such as: - hydrocarbon fires and explosions, and performance testing of equipment or components under operational or extreme conditions.

## Course Aim

To give an appreciation of the consequences of loss of containment through a series of lectures and experimental demonstrations of fire, explosion and dispersion hazards. The experiments and lectures will be combined with video footage and examples of model calculations to give an overview of the consequences and mitigation techniques following a loss of containment.

People who should attend this course:

- Safety managers
- Hazard assessment engineers
- Operational personnel on onshore petrochemical sites and offshore oil and gas platforms
- Emergency response teams and services.

## Course Content

The content of the course can be tailored to suit the needs of individual companies.

It can also be incorporated into individual company training courses which can be held at the Spadeadam conference facilities. For more information, or to discuss your needs, please contact us at the address on the back.

Delegates will be provided with notes detailing the subjects covered during the course.



## The Course Programme will cover:

- Two Phase Gas Dispersion
- Gas Accumulation
- Liquid Spread
- Rapid Phase Transition of LNG
- Fire Hazards
- Jet Fires
- Pool Fires
- Underground Pipeline Ruptures and Fires
- BLEVE
- Confined Explosions
- Vapour Cloud Explosions
- Modelling Approaches

