

Safety technology

OIL AND GAS
SERVICES

The Lloyd's Register Group provides a comprehensive range of safety engineering services designed to provide support to clients throughout the asset lifecycle. We are able to offer you a through-life service based on development of the case for safety, plus added-value solutions in all areas of business risk.

Our safety engineering and risk management services include a range of tools for consequence modelling and risk analysis.

Summary of business benefits

In choosing the Lloyd's Register Group you are assured of a service which provides:

- practical experience and expertise in all aspects of the strategic and operational management of safety, reliability, business and project risk
- access to multi-disciplinary teams with competence across fixed and floating structure, pipelines, subsea and corrosion engineering, systems integrity and criticality based verification
- cross-fertilisation of best practice from other industry sectors
- where required, an impartial viewpoint from an organisation with financial, political and technical independence.

Scope of services

Our services include:

- risk assessment and management
- occupational health and safety regulatory compliance and auditing
- fire and safety systems engineering design assessment
- hazard identification and analysis (HAZID/HAZAN)
- hazard and operability studies (HAZOP)
- fire and explosion analysis
- consequence modelling
- escape, refuge, evacuation and rescue analysis
- emergency response plans
- emergency systems survivability analysis
- marine and mechanical hazard analysis
- dropped object studies, heavy lift assessments
- quantitative risk assessment
- reliability, operability, maintainability studies
- reliability centred maintenance assessments.



The range of capabilities enables the Lloyd's Register Group to offer a through-life service to clients based on development of the case for safety. A range of software tools are routinely used for consequence modelling and design appraisal work, including:

- PIPENET (hydraulic analysis tools)
- FRED (Fire, Release, Explosion, Dispersion model)
- SCOPE (Explosion Modelling tool)
- SHEPHERD (Hazard and Risk Management tool)
- DDMT (Data and Decision Management Tool – event trees).

www.lr.org

**For further information
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