



Factsheet

Achieving Excellence in Health, Safety & the Environment (HSE)

Companies nowadays are required by law to have high-quality policies, standards and procedures for HSE. The prize for world-class HSE is enhanced business unit performance, protection of company reputation, improvement of liability profile, and a demonstration of responsible behaviour to clients and staff.

However, HSE excellence is not achieved by only documenting standards and procedures. It should encompass the whole organisation's vision and culture so that a company "lives & breathes" HSE compliance in each aspect of its operations.

Subsequently, leading companies are embracing a holistic HSE approach aiming for continuous improvement, based on the 4 elements below.



Benefits to your business

Lysis's approach helps companies achieve HSE excellence leading to:

- Legal & regulatory compliance
- ISO certification
- Reduced risk level
- Enhanced reputation

How we can help

Lysis offers a range of services covering all HSE aspects. Our consultants have hands-on experience and have worked as HSE managers for leading companies worldwide. Our Services include:

HSE Management Systems (MS)

An HSE MS refers to a Company's high-level framework for applying health, safety and environmental management. The HSE MS outlines the key aspects of the company's approach, structure and philosophy so that HSE becomes part of the organisation's culture.

Lysis has expertise in helping companies develop HSE MS that are designed to ensure compliance with the law and to achieve continuous performance improvement.

Risk Management

Typical areas in which Lysis can assist with the effective and pragmatic application of risk management are outlined below:

- *Planning*, including hazard identification, HAZOP/HAZID, FMEA, risk registers, and others
- *Implementation* including the development of supporting tools & systems, including QRA, ALARP and safety documentation
- *Testing and Training*

A typical approach for Risk Management is shown overleaf.

Emergency & Crisis Management

Emergency & crisis management incorporates all of the policies, procedures and plans necessary to implement an infrastructure that allows companies to anticipate, manage and facilitate a swift recovery from a serious incident.

Our specific services include:

- Risk and Vulnerability Assessments;
- Business Impact Analysis;
- Crisis Communications;
- Recovery Strategy Selection;
- Crisis Management Planning;
- Emergency/Crisis Plan Testing and Maintenance;
- Emergency Response Planning;
- Training on all levels

Safety Case Development/Review

Industries are increasingly adopting the use of the "safety case" approach to develop safety management systems for specific work sites or business functions. Lysis can:

- Undertake an initial evaluation
- Carry out Bow-Tie, SIL, QRA studies
- Develop the safety case from the identification and evaluation of specific risks
- Review existing safety cases
- RAM analysis
- Assist with the planning, implementation and staff training of the safety case solution.

HSE Audits

Auditing HSE helps companies assess the efficiency, effectiveness and reliability of the HSE management system and draw up plans for corrective action. Lysis can:

- Provide HSE Auditing training to staff wishing to audit their companies' HSE performance
- Provide Lead ISO/IRCA auditors to undertake or facilitate audits
- Execute Accident investigations using TRIPOD and other tools.

Reliability consultancy

Lysis offers a full range of services to help improve clients' reliability for safety-critical systems. Specific expertise:

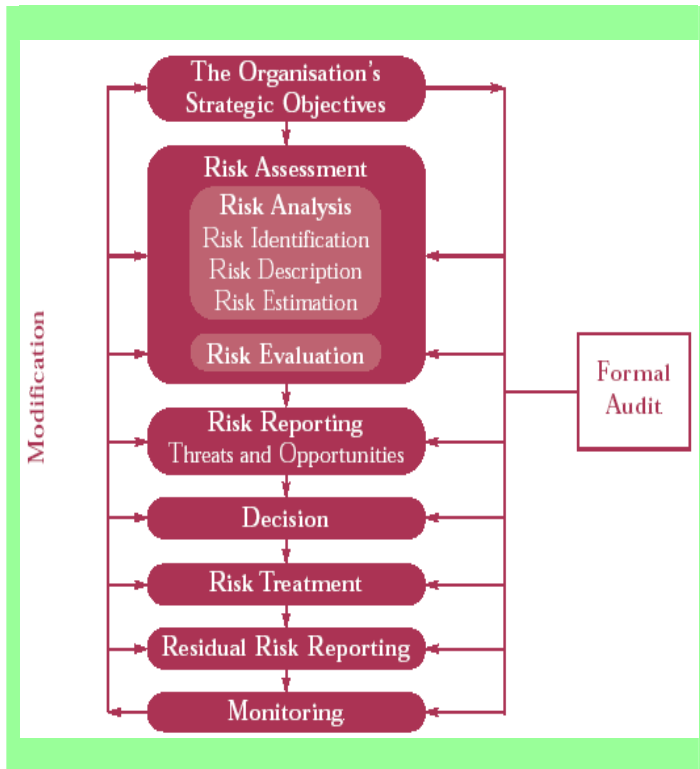
- Reliability engineering studies
- Risk-Based Inspection



Approach & Work Example

Lysis has developed standard methodologies and tools for helping companies achieve HSE excellence. All our methodologies are aligned with guidelines provided by government and regulatory bodies and independent organisations, such as the UK Health & Safety Executive, US Homeland Security Department, UK Institute of Risk Management, etc.

For example, Lysis has developed a best-practice approach for Risk Management based on the ISO Guide 73. Its key steps are highlighted below.



Contact Details

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Our Track Record

Lysis has an impressive track record in assisting both large and smaller organisations to achieve HSE excellence. We specialise in HSE for industrial corporations, operating in sectors such as Energy, Mining, Automotive, Food, Utilities, Pharmaceuticals, etc. Clients include Shell, BP, the UK Department of Trade & Industry, and others. Our consultants have 20+ years' experience and are typically ex-HSE Managers of large companies.

Example of Work

This example relates to Lysis' Emergency & Crisis Management capability.

Our client (a leading oil company based in Western Africa) had an urgent need to develop robust processes and systems for the prevention and mitigation of emergencies and crises. This requirement addressed both operational-type emergencies (e.g. well blow-out, oil spill) and business crises (e.g. civil unrest, kidnapping).

Lysis was assigned to put in place high-quality procedures. This involved working closely with the HSE department to firstly qualify and quantify risks and then develop measures to mitigate their impact. It also involved putting in place the required office and IT facilities required to effectively manage the emergency.

To test the crisis arrangements, Lysis developed and implemented Exercise Barracuda; a live emergency/crisis exercise, simulating a scenario of civil riot. This exercise involved company personnel, security forces, and members of the media. Results from that exercise were captured and improvement actions were put forward.

Furthermore, Lysis carried out the required training to ensure the organisation fully understood how to respond to an emergency/crisis. Our training included General Awareness sessions (for all staff) and more detailed Masterclasses (for those to be actively involved in emergency/crisis management).

This project was a great success and enabled the company react successfully when faced with a business crisis a few months later.