

Oil and Gas Lifecycle Hazards and Risks

Purpose

The course provides an overview of oil and gas industry facilities and activities and the typical hazards associated with this industry. It also provides an understanding of the role of risk management through the oil and gas project lifecycle. This includes evaluating regulatory regimes and the opportunities for risk reduction during the phases of a project.

At the end of the course you will be able to

1. Critically review, from an HSE perspective, the engineering options for developing an oil and/or gas reservoir and delivering the products to market.
2. Analyse the oil & gas industry project life cycle with regards to the change in the hazard and risk profile.
3. Critically compare and contrast the different approaches to governance and regulation of the oil and gas industry around the world and analyse the influence of major incidents on regulatory regimes.

Outline content

Hydrocarbon industries sources of risk

- Drilling and well intervention
- Offshore production systems
- Production and debottlenecking
- Simultaneous operations
- Maintenance and aging assets
- Pipelines and shipping
- Refining, downstream processing & storage
- LNG/LPG

Regulatory regimes

Value and risk management through the project lifecycle

- Initiation and feasibility
- Concept selection and project definition
- Detailed design, construction and commissioning
- Operation and abandonment
- Change management

Overview of risk assessment tools and techniques

Recommended prior study

Education, skills or experience equivalent to undergraduate level

Risktec module: *Principles of Risk Management*

Who should attend

Managers, engineers and HSE professionals who need to lead or undertake risk management processes for their organisation and facilities. Individuals new to the oil and gas industry who require an overview of the industry's risks.

Delivery Methods

Face-to-face, Distance Learning, or Blended Learning

Levels of Assessment

- Attendance only
- Assessment by Risktec
- Postgraduate Qualifications: PgCert, PgDip and MSc

Assessment details

Postgraduate programmes: activities and assignment (total about 80 hours)

Module details

Level:	Masters
Duration:	2 days (F2F), or 8 weeks (Postgraduate DL)

Price

For prices and further information, or to book a course, please contact **Vicky Billingham** at training@risktec.tuv.com

Contact

Risktec Solutions Ltd
Wilderspool Park
Greenall's Avenue
Warrington
WA4 6HL
United Kingdom

Tel +44 1925 611 200
training@risktec.tuv.com
risktec.tuv.com