Physical Effects Modelling

TÜVRheinland®
Risktec

Oil & Gas

What's the purpose?

To enable an understanding of the range of hazardous physical effects that can occur, an overview of human and equipment vulnerability to physical effects, and the uses and limitations of physical effects modelling. This includes an introduction to physical effects modelling and the opportunity for some hands-on practice of physical effects calculations.

Who is this for?

Managers, engineers, operators, HSE advisors and risk management practitioners.

What does it cover?

- What are physical effects and why model them?
- Source term release and discharge calculation
- Dispersion analysis
- Fire modelling
- Explosion modelling
- Subsea releases/dispersion
- Human and plant vulnerability to physical effects
- Commercial and public domain software tools

After completing the module you should be able to:

1. Analyse an industrial plant/installation to determine expected physical effects in the event of an incident
2. Evaluate, by applying physical effects modelling techniques, how these physical effects affect people and plant
3. Justify which of the available modelling techniques/ software is appropriate to analyse physical effects in different circumstances, whilst understanding the limitations of these techniques

	Hours	Delivery Methods	
		Face-to-face	Distance learning
Postgraduate	80	2 days, followed by assessment	8 weeks duration
Risktec CPD	15	2 days, followed by assessment	8 weeks duration
Attendance only	15	2 days	---

If you are a corporate client and would like a customised delivery, please contact the training team to discuss your requirements.

What prior study is recommended?

Education, skills or experience equivalent to undergraduate level. Risktec module: Principles of Risk Management.

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