

What's the purpose?

The purpose of this module is to explain how an understanding of human abilities, limitations and needs can be applied to the design and assessment of tasks, equipment, systems and processes, in order to reduce human error, improve safety and increase efficiency. It also highlights how and why human errors occur, and describes the methods, tools and techniques that can be used to identify, analyse and reduce them. Key Human Factors tools and methodologies will be demonstrated through the use of "real world" practical examples from high hazard industries.

Who is this for?

Managers, supervisors and HSE professionals.

What does it cover?

- Introduction to Human Factors
- Human Factors integration (HFI)
- Human Factors support to the design lifecycle for high hazard industries
- Defining human error
- Human error and violations
- Human Reliability Analysis (HRA)

After completing the module you should be able to:

1. Analyse the part played by individual, task and organisational factors in achieving safe and effective designs, systems and processes
2. Demonstrate how Human Factors should be integrated within a project/ design lifecycle process for high hazard industries and discuss the key Human Factors inputs and activities that are typically required.
3. Analyse the potential causes of human errors and violations and discuss the measures that can be taken to reduce them.
4. Evaluate the different techniques and approaches available for qualitative and quantitative human error identification, assessment and error reduction.

	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.