

Rail Industry Hazards and Risks

Purpose

The course provides an overview of rail industry infrastructure, operations and activities and the typical hazards associated with this industry. It also provides an understanding of the role of risk management through the rail project lifecycle. This involves studying the different sources of risk in the rail industry, the regulatory regimes of the industry, the typical phases of a project and opportunities for risk reduction within each of the phases and the final acceptance into service.

At the end of the course you will be able to

1. Critically review, from an HSE/ORR perspective, the principal types of infrastructure, operations and activities which exist within the rail industry
2. Evaluate typical rail industry project phases and hazard sources and interpret the standard means of avoiding or mitigating those hazards
3. Consider the regulatory obligations placed on the owners/operators of rail facilities to demonstrate that the risks posed to people and the environment are both tolerable and ALARP

Outline content

- Rail industry sources of risk
- Regulatory regimes/requirements
- Collisions between trains
- Collisions of trains with objects
- Derailment
- Fires
- Explosion
- Flood
- Slips, trips, falls
- Hit by train
- Electricity
- Structural
- Road traffic accidents
- Level crossing
- Construction

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, as well as individuals new to the rail 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

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