

TÜV Rheinland Functional Safety Training Programme

Process Hazard & Risk Analysis

14th - 18th November 2022

Derby, UK



Controlling risks within major hazard enterprises requires a robust process safety management (PSM) system, and key to its success is the experienced application of process hazard and risk analysis (PH&RA) techniques.

This Process Hazard & Risk Analysis course is part of the TÜV Rheinland Functional Safety Training Programme. Participants who successfully pass the examination will receive an FS Engineer (TÜV Rheinland) certificate.

This course covers the fundamentals of PSM, demonstrating how to apply the theory in practical situations, using simple and more complex examples to illustrate key points. The course is considered essential for anyone who is involved in PH&RA.

Who is this for?

Process engineers, safety engineers and managers, instrument engineers and operations personnel, plant and operations managers.

Participants will be required to submit:

- An eligibility form showing a minimum of 3 years' experience in the field of functional safety, and
- University degree (Master's or Bachelor's degree in Engineering) or equivalent engineer level responsibilities status as certified by employer

The submission will be reviewed to determine eligibility for the course.

What will I learn?

At the end of the course you should be able to:

1. Apply the most popular and internationally adopted methods and tools for identifying and managing the risks associated with process related hazards
2. Actively participate in and give effective support during the whole process hazard and risk analysis approach
3. Identify hazards and analyse risk, including applying the IEC 61882 HAZOP standard
4. Relate the requirements of Functional Safety according to IEC 61508 / IEC 61511 to process hazards and risk analysis



Pricing

GBP 1,950 per person (excluding VAT).

The price includes training material, delivery exam and certification fees.

Please contact us if you would like to discuss a course delivered specifically for your organisation.

Location

Risktec Solutions, Mallard Way, Derby, UK, DE24 8GX

How is it delivered?

The course will be delivered face-to-face at our office in Derby, UK. (In the event that travel restrictions resume, this course will be delivered online via MS Teams.) The course is delivered over five consecutive days, 9am - 5pm each day.

The course material comprises slides, videos and activities designed to enhance the knowledge and practical skills of participants. It provides a hands-on learning experience, with emphasis on the activities. Many of the slides provide backup content for reference purposes.

The Risktec trainers are accredited by TÜV Rheinland. They have extensive training experience and draw upon their practical experience when delivering this training course, providing examples of the use of process hazard and risk analysis techniques as applied in the real world.



How is it assessed?

The examination will be completed during the afternoon of the last day of the course. The total exam time will be 3 hours and 30 minutes.

Part 1: 50-question multiple-choice test.

Part 2: Three essay-style questions.

Meet the trainers



Andy Lidstone: CPhys, MInstP, TÜV Certified Functional Safety Expert

Andy has over 20 years' experience in the field of safety and risk assessment and has worked in a number of industries, including oil and gas, mining, nuclear and defence, transport, manufacturing and chemical. Over the past 15 years, Andy's work has been predominately in the oil and gas industries, managing projects for facilities including refineries, mines, gas plants, drilling rigs and logistics operations. His expertise includes techniques such as bowties, fault and event tree analysis, failure modes and effects analysis, consequence modelling, QRA, hazard identification, preparation and roll-out of HSE cases and qualitative and quantitative risk assessments.



Matt Beeson: MEng, CMIOSH, TÜV Certified Functional Safety Trainer.

Matt has 15 years' experience as a risk and safety consultant, working in oil and gas, rail, renewables, mining, leisure and manufacturing industries. He has wide experience with a number of different hazard identification and risk assessment techniques (e.g. FTA, ETA, bowtie, HAZOP, IPF SIL assignment and verification, FME(C)A), in developing safety arguments and ALARP demonstrations. Matt frequently provides training on bowtie analysis as well as SIL assignment and verification and HAZOP.

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Register now!

For more information visit: risktec.tuv.com/our-services/learning/tuvr-functional-safety-engineer-course



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