

Hazard and risk analysis

Cross-industry terminology and methods

Insight into the principles and methods for hazard and risk analysis. Seminar duration: 1 day

Brief description

- Determination and evaluation of hazards and risks
- Risk graphs
- Safety integrity levels
- Safety analyses and validation

Goal and benefits

The training enables participants to moderate a hazard and risk analysis themselves or to review it for methodological correctness.

- The possible methods and the selection of industry-typical procedures (e.g. HAZOP, risk graphs, etc.) are learned
- Safety objectives and requirement categories (e.g. SIL, ASIL) can be determined autonomously or checked for plausibility
- In addition to the requirements from the various standards, participants also gain an insight into typical methodological pitfalls and errors so that they can avoid them in a systematic manner
- The training documents provide a reference guide for practical application

Certificate: Methodology of hazard and risk analyses across different industries

Content

Whether plant engineering, mechanical engineering, aerospace, the automotive industry or medical technology - hazard and risk analyses are not only a must, but also an opportunity. As part of normative requirements, system owners and development partners cannot avoid the systematic identification of potential hazards. If a systematic approach is taken, this first central step in determining safety goals for the protection of life and limb and the environment also helps to bring order to the jungle of safety measures, which often grow wild and are sometimes blindly adopted in a new context. Only with a sound and professional methodology can help to avoid responsible persons overlooking application risks becoming their own risk in the event of product liability. Methodologically experienced moderation is the key to a safe path!

Target groups

The method training is addressed to aspiring or practicing system analysts, safety engineers, safety managers, quality engineers and analysis moderators.

Prior knowledge





Mathematical knowledge of engineering studies or comparable qualification is expected. Basic knowledge of safety engineering or other risk reduction analyses should be acquired (e.g. FMEA). Previous participation in at least one hazard and risk analysis or FMEA for a complex system is advantageous.

Number of participants

Appr. 4 to 12 persons

Proven training concept

What previous participants liked about this seminar:

-  *Very good introduction*
-  *Explanation of the vocabulary*
-  *Clear definition of terms*
-  *Examples from practice*