# Standards-compliant development and assessment of Safety-related software according to EN 50128:2011/A2:2020 / EN 50657:2017

## DESCRIPTION

This seminar is aimed at the persons who are confronted with the development of safety-relevant software or who have to ensure standard-compliant development within the framework of the quality management. You will get an overview of how a standard-compliant development of safety-relevant software must be structured, documented and proven before an expert. Case studies and exercises illustrate the implementation of the normative requirements in daily practice.

**The following points are addressed:**

- Basics EN 50128 / EN 50657
- Classification/scope of EN 50128 and EN 50657
- Safety integrity and SIL derivation
- Software development models
- SW quality assurance as a key aspect
- SW requirements, architecture and design
- Implementation, integration, test, acceptance, maintenance
- Review process and the role of the reviewer
- Cross-cutting issues:
  - Relationship between verification and validation (V & V)
  - Dealing with supplies and development tools
  - Testing, test coverage
  - Generic software and configurable systems

## Seminar-No. 01.04

### DATES & COSTS

On-demand | Inhouse

Length: | 2 Days
**Fee:** | **1.500,00 €**
incl. lunch and certificate of participation
plus VAT

### TARGET GROUP

- Safety manager
- Technical project manager
- Safety case, development and quality assurance staff

### LANGUAGES

## SEMINAR CONTENTS

### DAY 1    09.00-17.00

- Scope and principles of EN 50128 / EN 50657
- Safety integrity and SIL derivation
- SW development models and SW quality management
- Requirements management, architecture and design

### DAY 2    09.00-17.00

- Implementation, integration, test, acceptance, maintenance
- Process and the role of the reviewer
- Cross-cutting issues
- New features of EN 50567 compared to EN 50128