

# Semi-Formal SW Architecture (DE0304)

## Semi-Formal Software Architecture Development with UML

### Who should attend

- Software Architects
- Development Engineers (System and Software)
- Safety Managers
- Project Leaders of safety related development projects
- Managers responsible for definition and implementation of work processes

**Duration:** 2 Days

**Language:** German or English, training material will be in English.

### Course topics:

- Overview methods for the architecture development and description
- Model based software development
- Semi-Formal Methods: UML
- Diagram types
  - Notation elements
  - Linking and combination of different diagrams / views
  - Traceability concept
- UML Tools (e.g. Sparx Enterprise Architect, PTC Integrity Modeler)
- Content of software architecture descriptions in the scope safety standards
- Development approaches and methods incl. application of diagrams and notation elements for the development of the
  - Static software architecture design aspects
  - Dynamic software architecture design aspects
- Software design pattern
- Content of design guidelines
- Verification strategies for UML model based architectures
- Tool based documentation generation
- Workshop: Guided development of a software architecture example

### Brochure



### Scheduled Courses