

## ***AR100-EN iSAQB® Certified Professional for Software Architecture - Foundation Level (CPSA-F)***

### **Kurzbeschreibung:**

In this seminar, **AR100-EN iSAQB® Certified Professional for Software Architecture - Foundation Level (CPSA-F)** you will experience the full software architecture process based on a concrete case example. The examination for the iSAQB® Certified Professional for Software Architecture will be taken at the end of the seminar.

### **Zielgruppe:**

- Software Architects
- Software Developer

### **Voraussetzungen:**

Practical programming experience and basic knowledge of UML are beneficial for effective participation in this seminar.

### **Sonstiges:**

**Dauer:** 4 Tage

**Preis:** 2340 Euro plus Mwst.

### **Ziele:**

In this **AR100 iSAQB® Certified Professional for Software Architecture - Foundation Level (CPSA-F)** course, you will learn the methodological tools for software architecture development and then prepare for the iSAQB® CPSA exam.

You will be able to make problem-related design decisions on the basis of previously acquired practical experience. You will be able to negotiate key software architecture decisions with other project participants. You will be able to document and communicate software architectures based on views, architecture patterns and technical concepts.

## Inhalte/Agenda:

- ♦ **Basics**
  - ♦ ◇ Role and tasks of the software architect
  - ♦ ◇ Architecture in the software lifecycle
  - ♦ ◇ Relationship between architecture and organization (Conway's Law)
  - ♦ ◇ Project vs. architecture goals
  - ♦ ◇ Requirements, constraints and quality models
- ♦ ◇
- ♦ **Design**
  - ♦ ◇ Correct cutting of blocks and interfaces
  - ♦ ◇ Principles and heuristics
  - ♦ ◇ Domain Driven Design
  - ♦ ◇ Architectural Patterns (Layers, SOA, Microservices, ...)
  - ♦ ◇ Design Pattern (Adapter, Factory, Observer, ...)
  - ♦ ◇ Cross-cutting concerns (logging, error handling, virtualization, ...)
  - ♦ ◇ Design decisions
- ♦ ◇
- ♦ **Description and communication**
  - ♦ ◇ Different views: system, building block, runtime, deployment
  - ♦ ◇ Modelling with UML
  - ♦ ◇ Templates (arc42)
- ♦ ◇
- ♦ **Quality**
  - ♦ ◇ Architecture metrics
  - ♦ ◇ Measure software architecture continuously
  - ♦ ◇ Review with ATAM
- ♦ ◇
- ♦ **Many practical examples and tips**