CPSA-A®
iSAQB certified

iSAQB® Certified Professional for Software Architecture – Advanced Level

Practical Knowledge in 20 Modules and 3 Areas of Competence

SOFTWARE ARCHITECT – A KEY PROFESSION FOR THE DIGITAL FUTURE

The profession of software architect plays a crucial role in our digitalized world. Without them, modern IT solutions and future-oriented technologies would be unthinkable. In order to meet the challenges of this important profession, sound training is essential. The **iSAQB® Certified Professional for Software Architecture (CPSA®)** program is a globally recognized, standardized training and further education scheme – structured in three levels:

Foundation Level: teaches the basics of software architecture
Advanced Level: for professionals with advanced knowledge who want to deepen their expertise
Expert Level: the highest certification level for software architects

Strengthen your skills – for software architectures that set standards!

HOW DOES CERTIFICATION AFFECT YOUR CAREER?

The training courses offer professional tools for implementing software architectures and optimally designing modern systems. Certification is a seal of quality for your employer and your customers and supports you in your personal development.

Skills that Advanced Level training teaches:

- Independently and methodically design medium to large IT systems
- Assume technical and content-related responsibility in business-critical IT systems
- Conceptualize, design, and document measures to achieve non-functional requirements
- Support development teams in the implementation of these measures
- Manage and carry out architecture-related communication in medium-sized to large development teams

Participants receive a defined number of credit points for successful participation in an Advanced Level training course. Participants who wish to register for the CPSA-A® examination require a total of at least 70 credit points. All three areas of competence must be covered with at least 10 credit points each.

CPSA®-Advanced Level Examination
The CPSA®-Advanced Level exam confirms your comprehensive skills as a software architect. After successfully completing the Advanced Level modules, you will demonstrate your expertise in the design and documentation of modern IT architectures in a written assignment.

Requirements for the exam:

- CPSA®-Foundation Level Certification
- At least 70 credit points from accredited CPSA®-Advanced Level training courses and three years of practical project experience

Show that you can master and successfully implement complex requirements - and stand out with this internationally recognized certification!

SKILLS ACQUISITION IN THE ADVANCED LEVEL PROGRAM – 20 MODULES

The Advanced CPSA® training program deepens your knowledge in the competence areas of methodology, technology, and communication. In 20 different modules, you can collect the required credit points for the Certified Professional for Software Architecture – Advanced Level (CPSA-A®) exam. Certification at Advanced Level requires prior completion of the Foundation Level. Even for software architects who are not aiming for certification, all Advanced modules are of great value for their daily work.

COMPETENCE IN
METHODOLOGY

COMPETENCE IN
TECHNOLOGY

COMPETENCE IN
COMMUNICATION

The Modules of the CPSA®-Advanced Level at a Glance

The Advanced Level program has a modular structure. The curriculum of the program consists of individual modules, each of which is dedicated to a specific area of competence for software architecture professionals.

The iSAQB® has defined the following three areas of competence for the CPSA-A program:

- **Methodological Competence:** Systematic approach to architecture tasks, independent of technologies
- **Technological Competence:** Knowledge and application of technologies to solve design tasks
- **Communicative Competence:** Ability to work productively with different stakeholders, communication, presentation, argumentation, moderation

	TRAINING MODULES			
ADOC	**Architecture Documentation** Documentation and communication of software architectures	●		
AGILA	**Agile Software Architecture** Effective architecture work in agile teams and projects	●		●
API	**Application Programming Interfaces** APIs as technical interfaces, organizational interfaces, and business-oriented building blocks	●	●	
ARCEVAL	**Architecture Evaluation** Evaluating whether an architecture meets expectations	●		
BLOCKCHAIN	**Consensus Building in Untrusted Decentralized Applications** Application of blockchain technologies to achieve consensus in distributed, untrusted systems	●	●	
CLOUDINFRA	**Infrastructure, Containers and Cloud Native** Design and implementation of adaptable infrastructures for the cloud	●	●	
DDD	**Domain-Driven Design** Designing a domain-oriented architecture in collaboration with domain experts and developers	●		
DSL	**Domain-Specific Languages** Improving configurability and ensuring properties with domain-specific languages	●	●	
EAM	**Enterprise Architecture Management** Solutions for maintaining the consistency of IT systems and applications	●		
EMBEDDED	**Safety-Critical Embedded Systems** Design of embedded systems that have a direct influence on their environment	●	●	
FLEX	**Flexible Architecture Models** Design of particularly flexible architectures	●	●	
FM	**Formal Methods** Bulletproof techniques and architecture to achieve correctness for software systems	●	●	●
FUNAR	**Functional Software Architecture** Software architecture with functions, immutable data, combinators	●	●	
GREEN	**Green Software** Entwicklung ressourceneffizienter Anwendungen	●	●	
IMPROVE	**Evolution and Improvement of Software Architectures** Systematic improvement of software systems (economical and technical goals)	●	●	
REQ4ARC	**Requirements for Software Architects** Equipping architects and development teams with sufficient requirements engineering know-how, based on the actual needs of stakeholders	●		●
SOFT	**Soft Skills for Architects** Communication for finding and presenting architectures			●
SWARC4AI	**Software Architecture for AI Systems** Fundamental knowledge for the development of modern software architectures for AI systems	●	●	
WEB	**Web Architectures** Design of powerful and secure web-based systems		●	
WEBSEC	**Web Security** Integration of security aspects into the analysis and development cycle with a technical focus on web-based systems	●	●	

Find your training!

Further information: www.isaqb.org

40,000+

OVER 40,000 CPSA®-CERTIFIED SOFTWARE ARCHITECTS WORLDWIDE

- Internationally recognized training
- Independent curricula, examinations, and certificates
- Constantly updated training content
- Highest training quality

Find your training!

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