# CAS IT Architecture («4AN»)

The role of the architect at the interface between business and IT is required to ensure that IT systems support the business in the best possible way. In this course, you will learn how to design IT solutions that are aligned with business processes.

**Duration:** 16.5 days
**Price:** 12'900.–
**Course documents:** Digital courseware, presentations, exercises & sample solutions and supporting literature

## Content

### 1 Digital Enterprise Architecture (DIGIEA) – (This course can also be booked individually)

- Digitising and evaluating business aspects
- Identifying business needs and deriving requirements
- Digitising business processes, products and business models
- Designing and supporting a digital enterprise architecture
- Evaluating business technologies for benefits and risks

### 2 Interim Presentation

- Presentation of the project proposal
- Discussion and tips & tricks

### 3 Information and Data Architecture (IDA) – (This course can also be booked individually)

- Creating simple information and data models
- Evaluating information and data models
- Using information and data models as a basis for application partitioning

### 4 iSAQB® Certified Professional for Software Architecture – Foundation (CPSAFL) – (This course can also be booked individually)

- Understanding the course content according to the iSAQB® framework curriculum
- Understanding the key terms, concepts and techniques of software architecture
- Understanding the application of these terms, concepts and techniques
- Evaluating and maintaining software architectures in practice
- Preparing for the iSAQB-CPSA-F® certification

### 5 Enterprise Architecture in Agile Transformation (BPU) – (This course can also be booked individually)

- Understanding how the structure of teams, their skills, responsibilities and system architecture affect the efficiency and resilience of an organisation
- Understanding how systems can be modularised in an aspect-oriented way
- Evaluating a given business structure or system architecture for efficiency and resilience

### 6 Architecture-relevant IT platforms 2.0 (ARP2) – (This course can also be booked individually)

- Understanding the basic architectural characteristics of major IT platforms and platform types
- Understanding the key aspects of IT platforms in the context of an organization's IT landscape
- Understanding scenarios and selection criteria for IT platforms
- Participating in the selection of IT platforms, taking into account a given IT landscape in the organization
- Comparing different IT platforms in terms of their architectural relevance

- Classifying IT platforms architecturally (including new ones)
- Familiarising yourself with the IT platforms discussed

**7 System Integration (SYI)** – (This course can also be booked individually)

- Understanding the basic concept of integration
- Understanding of implementation using different technology approaches
- Understanding the hurdles and pitfalls of integration projects
- Applying the concepts and strategies to relevant problems
- Distinguishing between marketing claims and reality
- Evaluating which tools solve which problems

**8 TOGAF® EA Training Course – Foundation (TOG1)** – (This course can also be booked individually)

- Understanding the core concepts and terminologies of the TOGAF® Standard 10th Edition
- Understanding the Architecture Development Method (ADM) and the objectives of each ADM phase
- Understanding the key outcomes of the ADM cycle
- Understanding how ADM can be adapted to the context of an organization
- Understanding the techniques available to support ADM
- Applying ADM, including iteration, partitioning, and applying it in a digital enterprise
- Understanding how architecture governance contributes to architecture development

**9 Final Presentation**

- Presentation of your own work
- Q&A session

## Key Learnings

- Gaining a comprehensive overview of the terms, concepts, techniques and methodologies of architecture in IT
- Understanding technologies from an architectural perspective
- Creating appropriate architectures for corresponding IT solutions from business processes and models

## Target audience

This course is aimed at software developers, IT architects and people at the interface between business and IT (domain experts, business analysts).

## Certification

You will receive the Certificate of Advanced Studies (CAS) IT Architecture for this training course. **The CAS and the 15 ECTS credits are awarded by the HWZ University of Applied Sciences Zurich.**

You will complete the training course with a certificate thesis. Upon successful completion, our partner, the HWZ University of Applied Sciences Zurich, will award you the Certificate of Advanced Studies (CAS) IT Architecture, worth 15 ECTS points.

The 15 ECTS points correspond to a total workload of approximately 450 hours. The ECTS points are made up as follows:

- 16.5 teaching days = approximately 120 hours = 4 ECTS credits
- 30 hours = 1 ECTS credit for the preparation and follow-up of the course material
- Approximately 330 hours = 10 ECTS credits for the certificate thesis

**Certificate thesis (project work)**

- Practice-based written assignment covering at least three IT architecture topics
- Length: 50 A4 pages
- Students choose a topic from their current and/or future working environment at the start of the training course
- You will have approximately 6 months to complete the certificate thesis
- 8 ECTS credits (approx. 240 hours of work)

**Presentations on the certificate thesis**

- Interim presentation with plenary discussion
    - Approx. 10 days after the first module
    - Duration: 15 minutes
    - 0.5 ECTS points (approx. 15 hours of work)
- Final presentation with plenary discussion
    - At the end of the training course
    - Duration: 30 minutes
    - 1.5 ECTS points (approx. 45 hours of work)

You can also obtain a certificate in Software Architecture (iSAQB – Certified Professional for Software Architecture – Foundation) and Enterprise Architecture (TOGAF® Enterprise Architecture Part 1). Exam fees are included in the CAS price.

# Additional information

Digicomp supports the participants of the «CAS IT Architecture» according to the motto «Lifelong Learning». Participants in the course will benefit from the following promotion from October 2024: From the start of the course (1st course day), you will benefit from 25% off all training courses in the "Software Engineering" product line for one year. Courses, boot camps, partner and reseller courses are excluded from this promotion. You will receive a voucher at the start of your training with the relevant promotional code entitling you to the 25%.
Please contact info@digicomp.ch if you are interested in booking another course.

# Further courses

- Network Architectures («NETZAR»)
- IoT, Microservices and Machine Learning – Modern Architecture-Relevant Methods and Technologies («MODTEC»)
- Domain-Driven Design («DDD»)
- Docker and Kubernetes – Overview and Use («DUK»)
- Service-oriented architecture («SOA»)

# Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-software-engineering/it-architecture/enterprise-software-architecture/training-course-cas-it-architecture