



Fundamentals of Avaloq Customisation (ACP)

Course Agenda

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1. Course Agenda (modifications in the course order can occur)

Week 1:

	AM	PM
Monday	-	Introduction
Tuesday	First Steps	First Steps
Wednesday	Customization	Customization
Thursday	Avaloq ice	Avaloq ice
Friday	Tools	Smart Client Introduction

Week 2:

	AM	PM
Monday	Object Keys, Additions and Classifications	Object Keys, Additions and Classifications
Tuesday	Rule Engine and Automatic Field Calculation	Workflow & Context Action Rule based selection
Wednesday	Cost, Book and Balance Engine	Cost, Book and Balance Engine
Thursday	Cost, Book and Balance Engine	Cost, Book and Balance Engine
Friday	Workshop 1	-

Week 3:

	AM	PM
Monday	Access Security and Roles	Access Security and Roles
Tuesday	Avaloq Script	Avaloq Script
Wednesday	Order Validation	Order Validation
Thursday	Implementing Interfaces	Implementing Interfaces
Friday	Workshop 2	-

Week 4:

	AM	PM
Monday	Avaloq Forms and Structured Extensions	Avaloq Forms and Structured Extensions
Tuesday	Report Writer	Report Writer
Wednesday	Business Use Cases	Business Use Cases
Thursday	-	-
Friday	-	-

2. Introduction

The aim of the course is to establish a well-grounded understanding of the system itself and the possibilities of parameterisation. In order to customise the Avaloq Banking System (ABS) to the bank specific requirements this knowledge is fundamental for all people who will be working successfully in the Avaloq environment.

The practical orientation of the course is guaranteed by hands-on training and exercises where participants will learn how to execute these changes. Business use cases allow participants to understand how banking processes are represented in the Avaloq Banking System. Furthermore, participants have the opportunity for self-study and for individual practice on the system during the course.

After the course participants are enabled to work on customisation, configuration and migration projects.

This course prepares for the certification exam "Avaloq Certified Professional". This international certificate attests a high knowledge in the field of the Avaloq Banking System. An Avaloq Certified Professional is authorised to customise the Avaloq Banking System.

3. Key Information

Objectives	Get the basic Avaloq know how to start working in an Avaloq project <ul style="list-style-type: none"> • First steps with the Avaloq Banking System • Fundamentals of Avaloq Customisation • Implementation of use cases based on examples
Target audience	Future customisation professionals working on Avaloq projects
Prerequisites	Basic IT and banking knowledge
Follow-up courses	A variety of different courses are published on www.orbiumgroup.com/en/training/courses/ccatalogue.html and www.avaloq.com ==> Academy
Duration	16 days
Education Points	400
Avaloq Certified Specialist	This course is the basis (mandatory requirement) to grant access to the specialization in: <ul style="list-style-type: none"> • Accounting • Credit • Technology & Security • Portfolio Management & Trading

4. Detailed description of the course modules

4.1.1 First Steps (CFOU)

Target:

To gain a broad overview of the features and possibilities of the Avaloq Banking System and to be familiarised with handling the software.

To know the Avaloq Banking Systems generic concepts, like its static data model and process engine based on the Avaloq Model Bank standard setup.

To understand the flexibility of the system and the what can be customized.

Course content:

- Avaloq GUI (know and understand the Graphical User Interface)
- Working with Fields, Lists, Lookup and Tasks
- Avaloq Basics
 - Object Model
 - Objects and Relations
 - More about Objects
- Using the Avaloq Navigator
- The Order Book
- Personal Settings

4.1.2 Customisation (CPPO)

Target:

To understand the basic concepts of Avaloq customisation

Course content:

- Customisation of the Avaloq Banking System
- Customisation by sources
- Management of sources

4.1.3 Avaloq ice – integrated customisation environment (CCEN)

Target:

To know the source modification lifecycle, the Avaloq tools and how to use them. To be able to implement modifications on an ABS database instance

Course content:

- ABS implementation project with ice
- Modification of source code
- Working with OMD sheets

4.1.4 Tools (CTOL)**Target:**

To be able to find and work with further customisation tools

Course content:

- Usage of TOAD
- Central Services concepts and usage
- Issue Tool

4.1.5 Smart Client Introduction (CSCL)**Target:**

Be able to work with the smart client.

Course content:

- Smart Client Architecture
- Features of the Smart Client

4.1.6 Object Keys, Additions and Classifications (CCAK)**Target:**

To know the usage and functionality of Keys, Additions and Classifications and to be able to parameterise them in Avaloq.

Course content:

- Usage and parameterisation of Classes, Additions and Keys
- Create bank specific fields
- Built up bank specific groups

4.1.7 Rule Engine and Automatic Field Calculation (CRLC)**Target:**

To know the different Rule Loader components, where in Avaloq they are used and how rules can be parameterised.

Course content:

- Rule Engine Concept
- Structure of a rule loader table
- Entering and loading rule sets
- Automatic field calculation

4.1.8 Workflow and Context Action Rule Based Selection (CCWX)**Target:**

To know how to customise Avaloq workflows and context actions. This is essential for the system to be efficient and user-friendly.

Course content:

- Parameterisation of Workflows
- Examples for Context Actions
- Parameterisation of Context Actions
- Using Views to parameterise context actions

4.1.9 Cost-, Book- and Balance Engine (CRPA)**Target:**

To be able to parameterise the cost, book and balance engines of Avaloq by describing expert knowledge with rules.

Course content:

- Definition of bookings
- Parameterisation of cost calculations with rules
- Parameterisation of booking logic with rules
- Parameterisation of balancing with rules

4.1.10 Access Security and Roles (CASR)**Target:**

To know how to parameterise Avaloq's security engine in such a way that information assets are protected adequately, without hindering business operations.

Course content:

- Security engine basic concepts
- Authentication and authorization
- Protecting information assets

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- Access Code attachment methods
 - Setting up security with APIs

4.1.11 Avaloq Script (CSCR)

Target:

To understand the basic concepts of Avaloq Script and Data Dictionaries. To be able to create basic Avaloq Script.

Course content:

- Overview and usage area of Avaloq Script
- Application architecture
- Using Data Dictionary (DDIC)
- Avaloq Script language elements

4.1.12 Order Validation (COVA)

Target:

To be able to define order validations using Avaloq script

Course content:

- Order validation overview
- Customisation of order validations

4.1.13 Implementing Interfaces (CIMI)

Target:

To get an insight into selected interfaces connecting Avaloq to 3rd party systems.

Course content:

- Customisation of the Avaloq Message Interface (AMI)
- Usage of the Avaloq Business Bus
- The Market Data Interface

4.1.14 Avaloq Forms and Structured Extensions (CSEF)

Target:

To be able to generate and parameterise bank specific forms and structured extensions.

Course content:

- Avaloq forms architecture
- Forms customisation
- Forms layout, structured extensions concept and Parameterisation

4.1.15 Report Writer (CRWR)**Target:**

To get an introduction of the functionality and possibilities of Avaloq Report Writer.

Course content:

- Extracting, consolidating, aggregating and displaying data
- Definition of arbitrary aggregation hierarchies, so-called hierarchical datamarts (or report datamarts)
- Definition of layouts based on a hierarchical data marts

4.1.16 Business Use Cases (CBUC)**Target:**

To understand the big picture and the overall context of Avaloq Banking System. Apply all learned units with an "all in one" business case example and understand the interdependencies between the separate concepts. Use Avaloq parameterisation tools to learn how to implement business requirements and business processes in ABS

Course content:

- Workshop-like group work on a business case including different banking requirements
- Customisation of Avaloq in order to implement the business requirements of the Business Case
- Group presentations

5. Avaloq Certification Exam

Course participants planning to take the certification exam can register online under <http://www.vue.com/avalog/>. Registration is open from the second ACP course week on. The exam fee is CHF 700 and has to be paid by credit card during the online registration. The re-examination fee is CHF 700.

The test will be held in a VUE Authorized Test Centre and is not part of the course. The exam is computer based and will last 100 minutes, the questions are in English.

Successful candidates will receive the ACP Certificate by regular mail.

6. Recommended reading

If you do not have previous knowledge about Accounting, we recommend you to read the Introduction to Accounting tutorial. It will give you an idea about: Accounting, accounting information and double-entry bookkeeping; financial and managerial accounting; basic financial statements (income statement, statement of cash flows, statement of changes in owners' equity and balance sheet); permanent (real) and temporary (nominal) accounts; four types of accounting transactions.

<http://simplestudies.com/introduction-to-accounting.html>

7. Course Logistics

A typical course day...

starts at 09:00 and ends at approximately 17:00 with a lunch break between 12.30 and 13.30. There is a morning and an afternoon break. If there is no morning class, course starts at 13:30.

For more information you can contact us at training@orbiumgroup.com .