

Fundamental Language Elements of Java («JAVA01»)

This course teaches you the basic syntactic concepts of the Java programming language and provides an overview of its versatile applications.

Duration: 2 days

Price: 1'350.–

Course documents: Digicomp Courseware

Content

1. Introduction
 - Buzzwords
 - System architecture
 - Versions
 - Platforms
 - Development environment
 - Original tools
2. Simple application
 - Program
 - Program entry
 - Source file
 - Program compilation
 - Program execution
 - Program arguments
 - Program output
 - Comment
 - Program exit
3. Libraries
 - Parcel
 - Import
4. Deployment
 - Compilation
 - Filing
 - Interpretation
5. Types of Data
 - Value Type versus Reference Type
 - Literal
6. Value Types
 - Type Size
 - Range of Values
7. Memory Management
 - Stack and Heap
 - Null Value
8. Variables
 - Vocabulary and Identifier
 - Declaration and Initialization
 - Block and Scope
9. Arrays
 - Visualization
 - Declaration
 - Construction
 - Length

- Access
- Initialization
- Enumeration

10. Composite types

- Declaration
- Access

11. Operators

- Assignment operation
- Type conversion operation
- Arithmetic operation
- Concatenation operation
- Shift operation
- Comparison operation
- Logic operation
- Bit operation
- Conditional operation
- Composite operation
- Evaluation sequence

12. Ramifications

- Methods
- Condition structure
- Alternative structure
- Multiple selection
- Case discrimination

13. Loops

- Methods
- Pre-test loop
- Verification loop
- Counting loop
- Collection loop

14. Jumps

- Iteration abortion
- Loop abort
- Brands

Key Learnings

- Understanding Java's system architecture
- Knowledge of the basic language elements of the Java programming language

Target audience

This course is designed for programmers who want to learn the fundamental basics of the Java programming language.

Requirements

Attendance of the following course or equivalent knowledge (programming experience) is required:

- [Basics of Programming \(«JVP»\)](#)

Further courses

- [Object-oriented concepts in Java – Basics \(«JAVA02»\)](#)

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/programming-languages/java-javascript/course-fundamental-language-elements-of-java