

Application Development with Java – Advanced («JAVA05»)

Expand your basic knowledge of application development with the Java programming language to advanced concepts! In this course you will get an overview of its versatile application possibilities.

Duration: 2 days

Price: 1'350.–

Course documents: Digicomp Courseware

Content

1. Singleton Pattern
 - Description of the
 - Modelling
2. Builder Pattern
 - Description
 - Modelling
3. Introspection
 - Class object
 - Class `java.lang.Class`
 - Class `java.lang.Package`
 - Interface `java.lang.reflect.Type`
 - Interface `java.lang.reflect.Member`
 - Class `java.lang.reflect.AccessibleObject`
 - Class `java.lang.reflect.Field`
 - Class `java.lang.reflect.Executable`
 - Class `java.lang.reflect.Constructor`
 - Class `java.lang.reflect.Method`
 - Class `java.lang.reflect.parameter`
 - Class `java.lang.reflect.Modifier`
4. Numbers and Currencies
 - Class `java.lang.Math`
 - Class `java.math.BigInteger`
 - Class `java.math.BigDecimal`
 - Class `java.util.Currency`
5. Dates and Times
 - Class `java.util.Date`
 - Class `java.util.Calendar`
 - Class `java.util.GregorianCalendar`
 - Interface `java.time.temporal.Temporal`
 - Class `java.time.Instant`
 - Class `java.time.LocalDate`
 - Class `java.time.LocalDateTime`
 - Class `java.time.ZoneId`
 - Class `java.time.ZoneOffset`
 - Class `java.time.ZonedDateTime`
 - Class `java.time.OffsetDateTime`
 - Interface `java.time.temporal.TemporalAmount`
 - Class `java.time.Period`
 - Class `java.time.Duration`
 - Interface `java.time.temporal.TemporalUnit`
 - Enumeration `java.time.temporal.ChronoUnit`

- Class `java.time.format.DateTimeFormatter`
- Enumeration `java.time.format.FormatStyle`

6. Lists

- Interface `java.util.List`
- Class `java.util.ArrayList`
- Class `java.util.LinkedList`

7. Quantities

- Interface `java.util.Set`
- Class `java.util.HashSet`
- Class `java.util.TreeSet`

8. Pictures

- Interface `java.util.Map`
- Interface `java.util.Map.Entry`
- Class `java.util.HashMap`
- Class `java.util.LinkedHashMap`
- Lambdas and Closures
- Functional interfaces

9. Lambda expressions

- Annotation `java.lang.FunctionalInterface`
- Filter algorithms
- Execution algorithms
- Transformation algorithms
- Generation algorithms
- Method references

Key Learnings

- Understanding the advanced application development process using the Java programming language

Target audience

This course is aimed at programmers who already know the basic procedure for application development with the Java programming language and now want to deepen their knowledge.

Requirements

Attendance of the following course or equivalent knowledge is required:

- [Application Development with Java – Basics \(«JAVA04»\)](#)

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-application-development-with-java-advanced